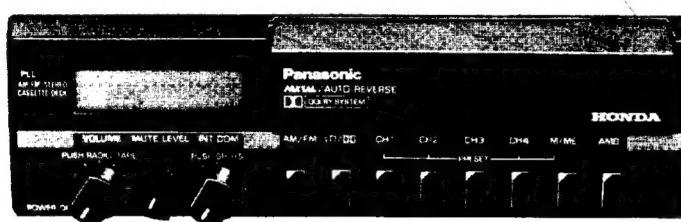


Service Manual

Car Audio

**FM-AM-FM STEREO
CASSETTE DECK/TUNER/AMPLIFIER**

CUSTOM-MADE FOR HONDA



This is the Service Manual
for the following area.

M ...For U.S.A.

**RM-1300A
RM-1400A**
(Black)

Spare parts for this model have already been unable to supply.
However, we un-officially may supply a few items.
Please contact us regarding this matter.

■ SPECIFICATIONS

General

Power Source:	DC 12V (Negative ground only)
Test Voltage:	DC 14V
Power Consumption:	0.8A at maximum power output (Memory backup 0.5mA)
Dimensions:	208mm(W)×64mm(H)×144mm(D) (8 ³ /16×2 ⁹ /16×5 ¹¹ /16) without bracket
Weight:	1.7kg (3 lb 3/4 oz) without bracket

FM Tuner Section

Frequency Range:	87.5~107.9 MHz
Usable Sensitivity:	8dB (S/N 30dB)
Signal to Noise Ratio:	55dB
Stereo Separation:	35dB at 1kHz
THD:	0.5%
IF Frequency:	10.7MHz

AM Tuner Section

Frequency Range:	530~1620 kHz
Usable Sensitivity:	34dB (S/N 20dB)
Selectivity:	50dB (± 10 kHz)
IF Frequency:	450kHz

Cassette Deck Section

Tape System:	Auto-reverse
Wow & Flutter:	0.15% (WRMS)
Stereo Separation:	35dB at 1kHz

Intercom Section

Mike Input Impedance:	600Ω
Headphone Output:	0.5W (16Ω/CH)

* "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
Weights and dimensions shown are approximate.
Design and specifications are subject to change without notice.

Panasonic

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LOCATION OF CONTROLS AND COMPONENTS

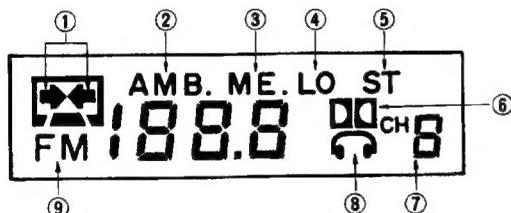


Fig. 1

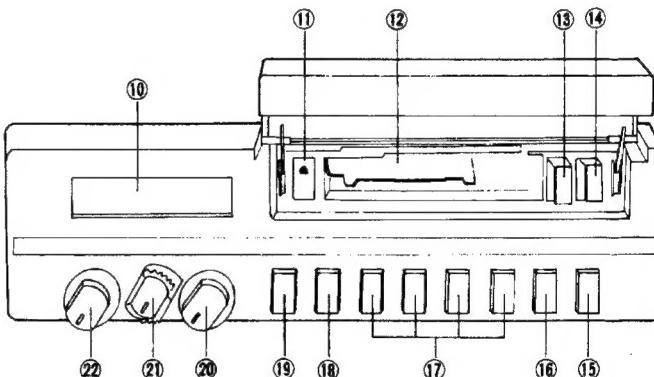


Fig. 2

- | | |
|--|---|
| <ul style="list-style-type: none"> ① Direction Indicators ② Ambience Indicator ③ Metal/Memory Indicator ④ Local/DX Indicator ⑤ FM Stereo Indicator ⑥ Dolby Indicator ⑦ Preset CH Indicator ⑧ Headset Indicator ⑨ AM/FM Indicator ⑩ LCD Display ⑪ Eject Button ⑫ Tape Slot ⑬ Rewind Button | <ul style="list-style-type: none"> ⑭ Fast Forward Button ⑮ Ambience Switch (ON/OFF) ⑯ Metal/Memory Switch (M/ME) ⑰ Preset Switches (CH1/PRO., CH2, CH3, CH4) ⑱ Sensitivity Switch, Dolby Switch (DX/LOCAL, DOLBY ON/OFF) ⑲ Band Switch (AM, FM) ⑳ Speaker/Headset Switch, Intercom Switch/Control Volume (PUSH SP/HS) ㉑ Mute Level Control (MUTE LEVEL) ㉒ Radio/Tape Switch, Power Switch, Volume Control (PUSH RADIO/TAPE, POWER OFF) |
|--|---|

DISASSEMBLY INSTRUCTIONS

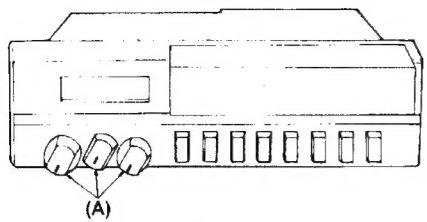


Fig. 1

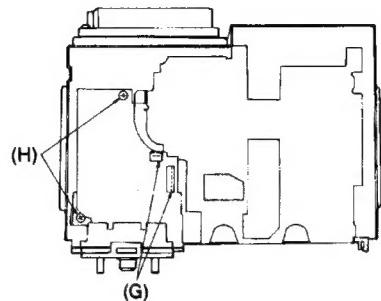


Fig. 6

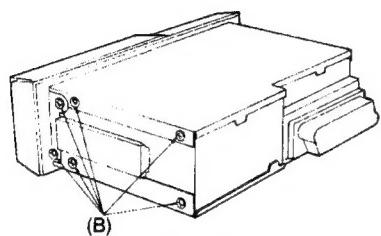


Fig. 2

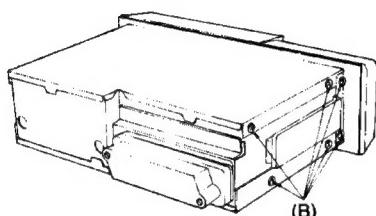


Fig. 3

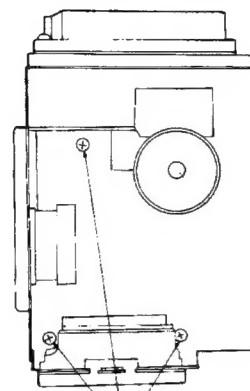


Fig. 7

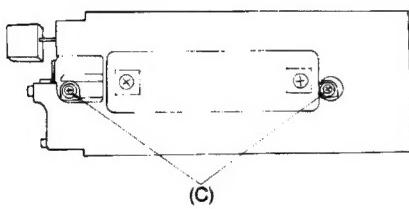


Fig. 4

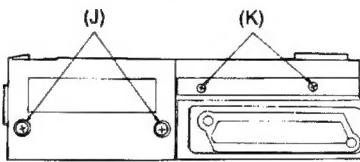


Fig. 8

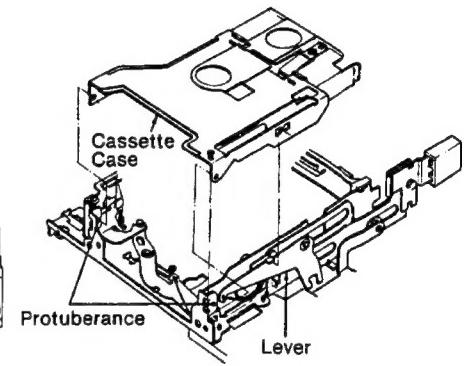


Fig. 13

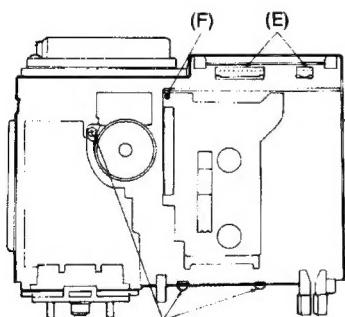


Fig. 5

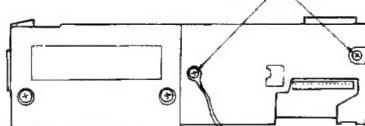


Fig. 9

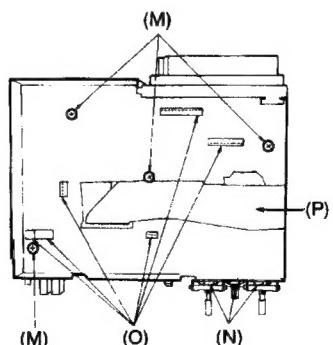


Fig. 10



Fig. 11

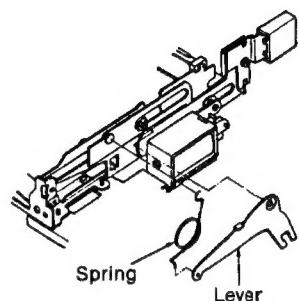


Fig. 12

Ref. No.	Procedure	Shown in Fig. —.	To remove —.	Remove —.
1	1, 2	1	Front Panel, Covers	Knob(A)×3
2		2, 3		Screw (3×6)mm(B)×12
3	1~5	4	Mechanism	Screw (2.6×5)mm(C)×2
4		5		Screw (2.6×5)mm(D)×3
5				Socket * 1(E)×2
6	1~6	5	Cassette Case * 2	Loosen screw(F)×1
7	1~8	6	AM Circuit Board	Socket * 1(G)×2
8				Screw (3×6)mm(H)×2
9	1~9	7	LCD Circuit Board	Screw (3×6)mm(I)×3
10	1~5, 10	8	Deck EQ & Ambience Circuit Board	Screw (3×6)mm(J)×2
11	1, 2, 11, 12	8	Power Source Circuit Board	Screw (3×4)mm(K)×2
12		9		Screw (3×4)mm(L)×2
13	1, 2, 13~16	10	Main Circuit Board	Screw (3×6)mm(M)×4
14				Nut (7 ϕ)(N)×3
15				Socket * 1(O)×7
16				Jumper (FPC)(P)×1

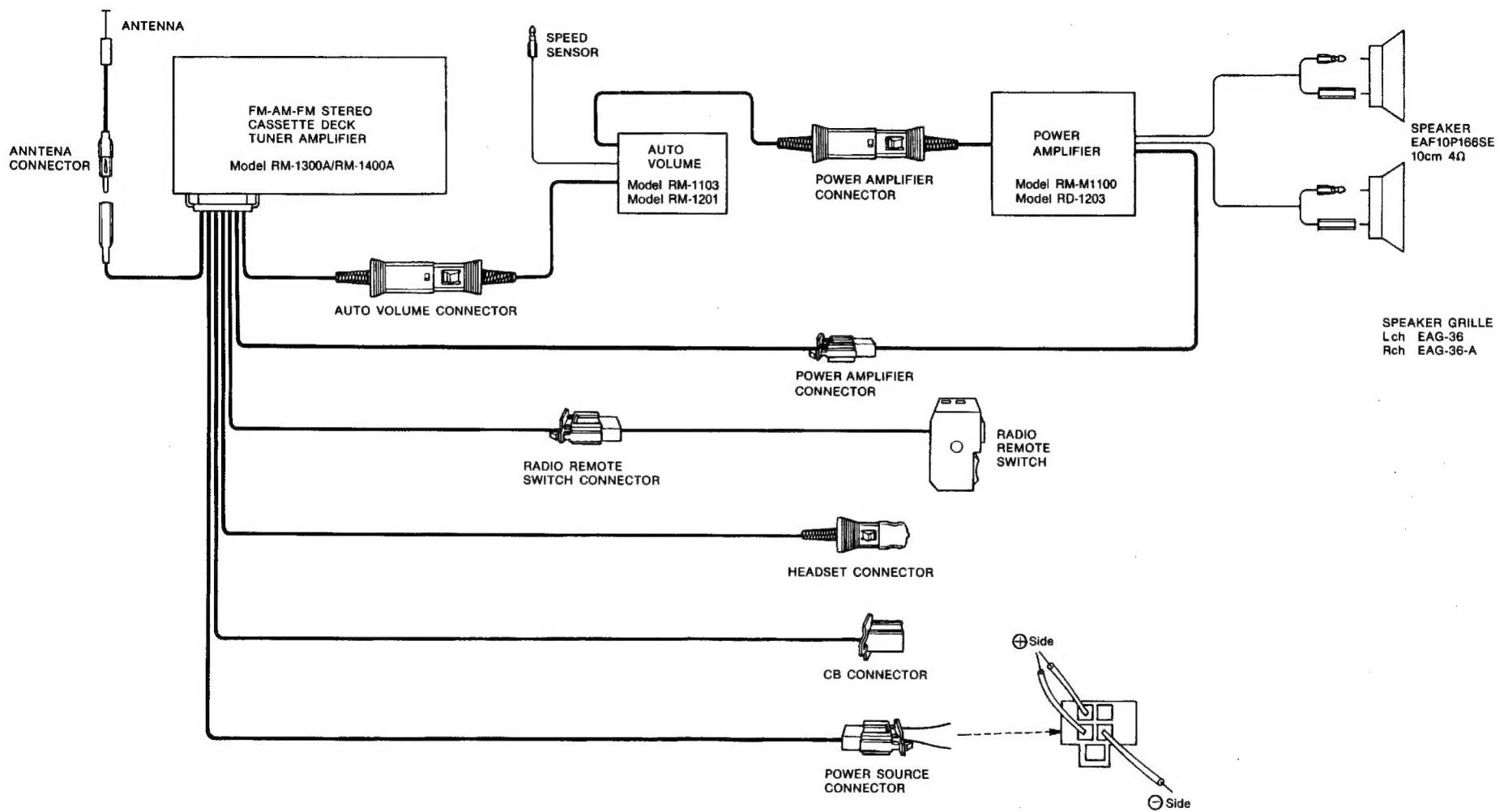
* 1. Remove socket in the direction of arrow as shown in fig. 11.

* 2. To reassemble, note the following.

(1) Insert the lever and spring in mechanism, as shown in fig. 12.

(2) Insert the cassette case as shown in fig. 13.

AUDIO SYSTEM CONNECTION



HARNESS CONNECTION

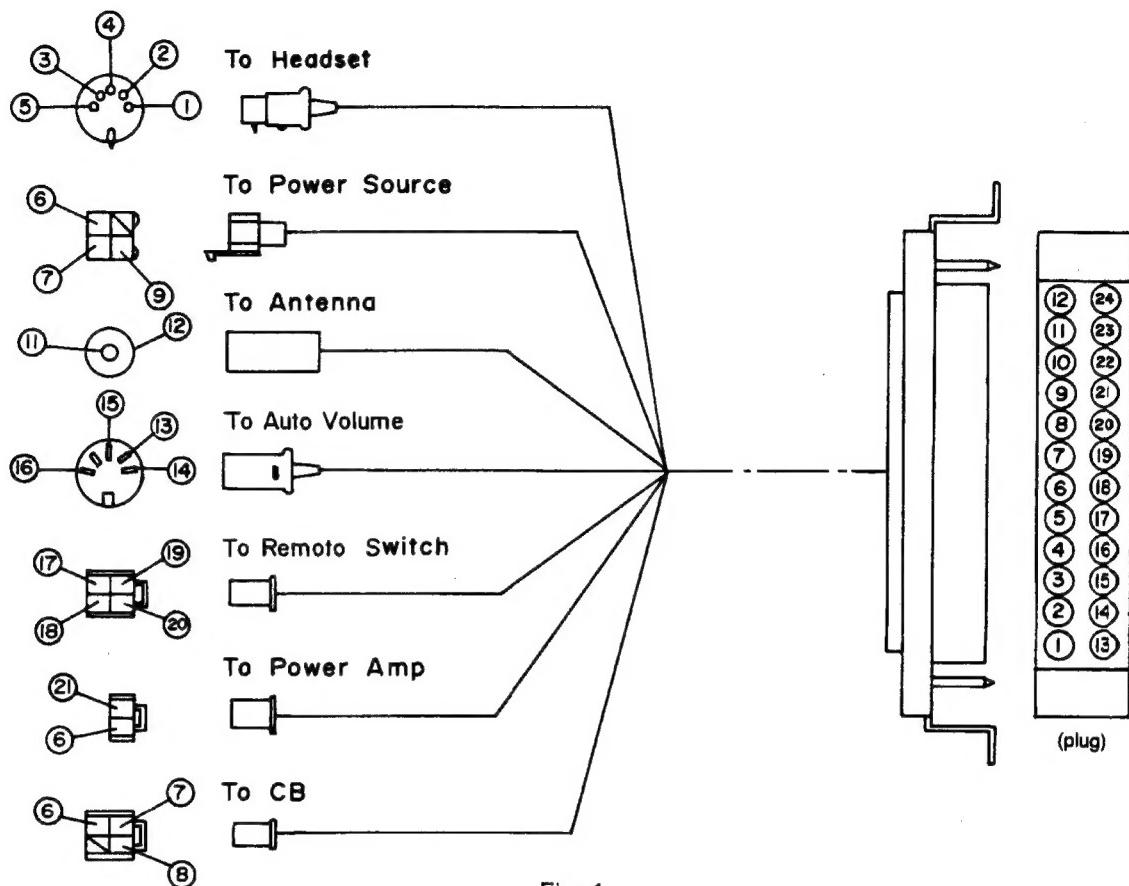
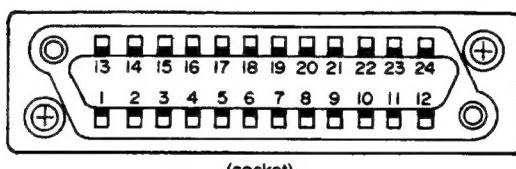


Fig. 1



(socket)

- | | |
|--------------|----------|
| ① Microphone | ⑬ Rch |
| ② Earth | ⑭ Lch |
| ③ Rch | ⑮ Earth |
| ④ Earth | ⑯ +B Out |
| ⑤ Lch | ⑰ Mute |
| ⑥ Acc | ⑱ Up |
| ⑦ CB | ⑲ Down |
| ⑧ Earth | ⑳ Earth |
| ⑨ Earth | ㉑ Earth |
| ⑩ Earth | ㉒ Earth |
| ㉓ Antenna | ㉔ Earth |
| ㉔ Earth | |

Fig. 2

MEASUREMENTS AND ADJUSTMENTS

- | | |
|---|---|
| 1. Set power switch to ON.
2. Mute switch on Remote switch to OFF.
3. SP/HS switch to HS. |  |
| 4. Set volume control to maximum.
5. Set band switch to AM, FM.
6. Set SENS switch to DX. | |

■ AM IF ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		FREQUENCY DISPLAY SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
AM-IF ALIGNMENT						
(1) AM	SG.....(+) Earth.....(-) 	450 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/about 600 kHz)	▼...(+) ▼...(-)	T302(AM 1st IFT) T303(AM 2nd IFT)	Adjust for maximum output.

■ AM RF ALIGNMENT

BAND	AM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	DC VOLT METER	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(1)	Disconnect	No signal applied	530kHz	▼...(+) ▼...(-)	L303 (AM OSC Coil)	Adjust for 1.2 ± 0.05 V reading on DC voltmeter
	Disconnect	No signal applied	1620kHz	▼...(+) ▼...(-)	CT302 (AM OSC Trimmer)	Adjust for 7.8 ± 0.1 V reading on DC voltmeter
Repeat steps (1) and (2).						
BAND	AM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	AC VOLT METER	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(4)	Connect to antenna socket through AM RF dummy antenna. (Refer to Fig. 6)	600kHz	600kHz	▼...(+) ▼...(-)	L301 (AM ANT Coil) L304 (AM ANT Coil)	Adjust for maximum reading on AC voltmeter
	"	1400kHz	1400kHz	▼...(+) ▼...(-)	CT301 (AM ANT Trimmer) CT303 (AM ANT Trimmer)	"
Repeat steps (4) and (5).						

■ AM NB ALIGNMENT

BAND	AM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	OSCILLOSCOPE	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
AM	Connect to antenna socket through AM RF dummy antenna. (Refer to Fig. 6)	600kHz (400 Hz, 0% Mod. 74 dB)	600kHz	▼...(+) ▼...(-)	T301 (AM NB)	Adjust for maximum wave from on oscilloscope.

■ FM ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		FREQUENCY DISPLAY SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
FM-IF ALIGNMENT						
(1) FM	High side thru. 0.001μF to test point ▼, Negative side to test point ▲.	10.7 MHz SWP.	Point of non-interference. (on/about 90 MHz)	Connect vert. amp. of scope to test point ▼. Negative side to test point ▲.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to Fig. 3)
(2) FM	"	"	"	"	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to Fig. 4)

■ FM RF ALIGNMENT

BAND	FM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	DC VOLTMETER	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(1)	Disconnect	No signal applied	87.5 MHz	▼...(+) E...(-)	L5 (FM OSC Coil)	Adjust for 1.2 ± 0.05 V reading on DC voltmeter.
	FM	Disconnect	107.9 MHz	▼...(+) E...(-)	CT3 (FM OSC Trimmer)	Adjust for 8 ± 0.1 V reading on DC voltmeter.
(3) Repeat steps (1) and (2).						
BAND	FM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	AC VOLTMETER	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(4)	Antenna socket (FM RF Dummy Fig. 7)	90.1 MHz (400 Hz 30%)	90.1 MHz	▼...(+) E...(-)	L1 (FM ANT Coil) L4 (FM ANT Coil)	Adjust for maximum reading on AC voltmeter
	FM	"	106.1 MHz (400 Hz 30%)	▼...(+) E...(-)	CT1 (FM ANT Trimmer) CT2 (FM ANT Trimmer)	"
(6) Repeat steps 4 and 5.						

■ DC BALANCE NB ALIGNMENT

BAND	FM SIGNAL GENERATOR		FREQUENCY DISPLAY SETTING	DC VOLTMETER (center "0")	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
FM	Antenna socket	90.1 MHz (400 Hz, 30% Mod, 60 dB)	90.1 MHz	▼....(+) ▼....(-)	T3 (FM 2nd IFT)	Adjust T3 for $-0.05 \sim 0.05$ V reading on DC voltmeter.

■ FM STEREO ALIGNMENT

<p>Notes: 1. Stereo modulator • Connect stereo modulator output to EXT MOD terminal of signal generator. • Pilot signal modulation to "10%".</p> <p>2. FM signal generator • Frequency approximately 100 MHz/Output level to "60~70 dB", 1~3 mV. • Modulation mode to "FM".</p>					
CIRCUIT	SIGNAL GENERATOR	FREQUENCY COUNTER	AC VOLTMETER	ADJUSTMENT	REMARKS
PILOT	90.1 MHz (0% Mod, 80 dB)	High side thru, 100 kΩ to test point ▼. Negative side to E.	—	VR2 (Pilot)	Adjust for $76.00 \text{ kHz} \pm 50 \text{ Hz}$ reading on frequency counter.
SEPARATION	90.1 MHz (400 Hz, 30% Mod, 80 dB)	—	▼...Lch (+) ▼...Rch (+) E...(-)	VR1 (Separation)	Make adjustment so that when the antenna input is subjected to L modulation (or R modulation.) R channel output (or L channel output) becomes minimum.

■ AZIMUTH ALIGNMENT

TAPE	AC VOLTMETER①	AC VOLTMETER②	ADJUSTMENT	REMARKS
Playback the azimuth tape. QZZCAC (10 kHz~20 dB)	▼...(+) ▼...(-)	Across headset ▼...(+) ▼...(-)	Azimuth Screw (Refer to Fig. 5)	Adjust for same reading on AC voltmeter① and ②.

■ DOLBY LEVEL ALIGNMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Dolby Level	Tape QZZCFM (315 Hz 0 dB)	▼...R ▼...L E...(-)	420mV±1dB	VR501 (R) VR502 (L)	Dolby switch...OFF

■ ALIGNMENT POINT

* See the schematic diagram and the circuit board and wiring connection diagram for the location of the test points.

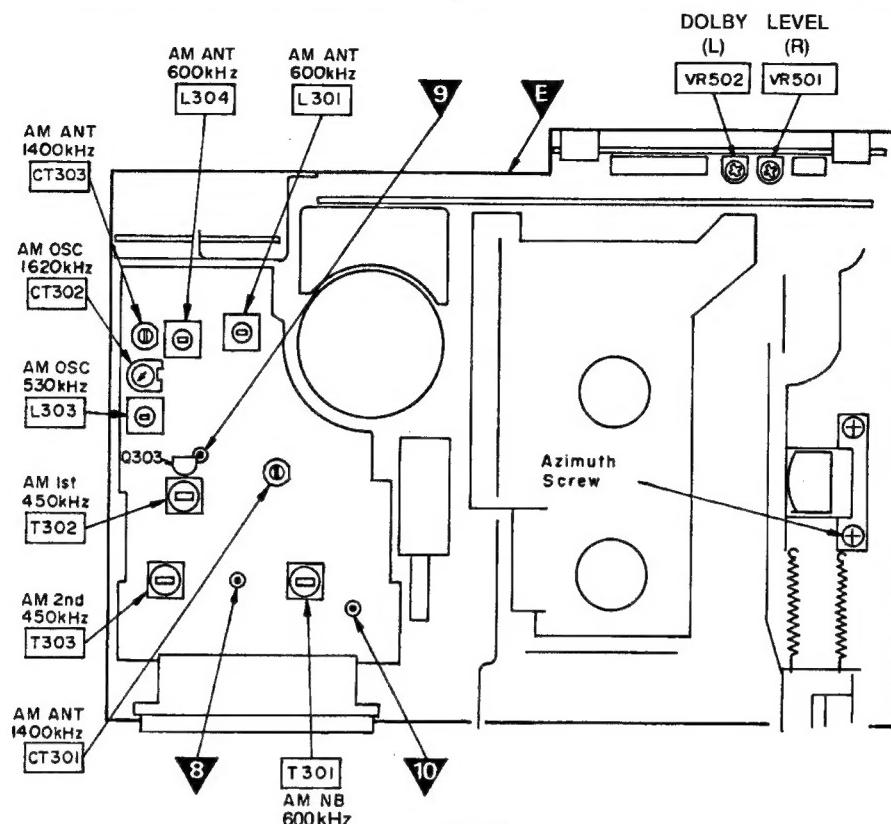


Fig. 1

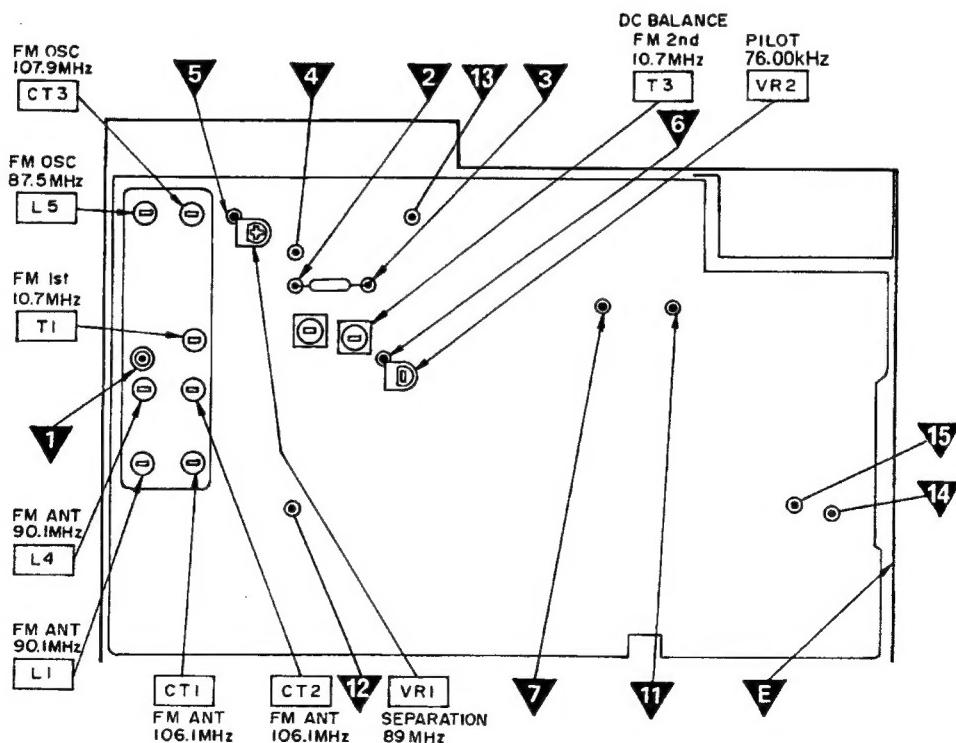


Fig. 2

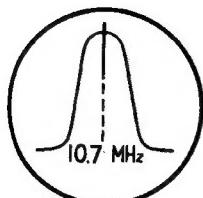
■ WAVE FORM

Fig. 3

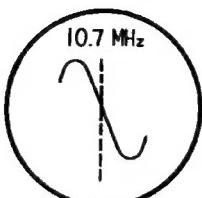


Fig. 4



Azimuth Screw

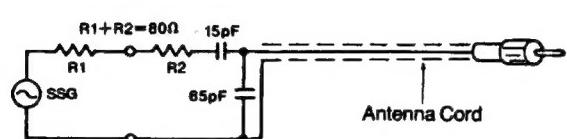
■ AM RF DUMMY ANTENNA

Fig. 6

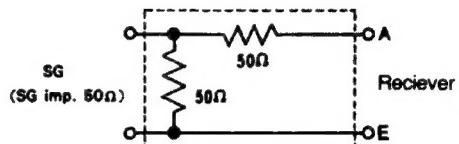
■ FM RF DUMMY ANTENNA

Fig. 7

LIQUID CRYSTAL DISPLAY (LCD)

- 1) The common and segment terminals of the LCD are connected in the following way:

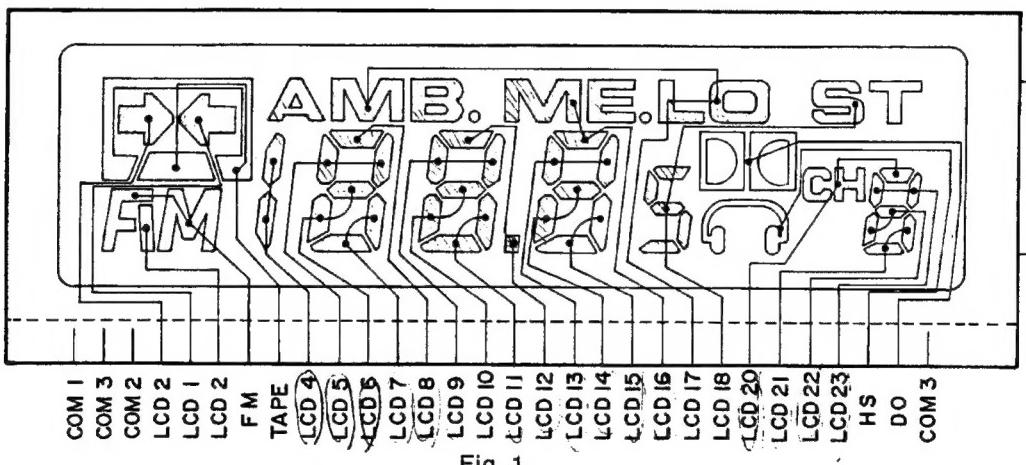


Fig. 1

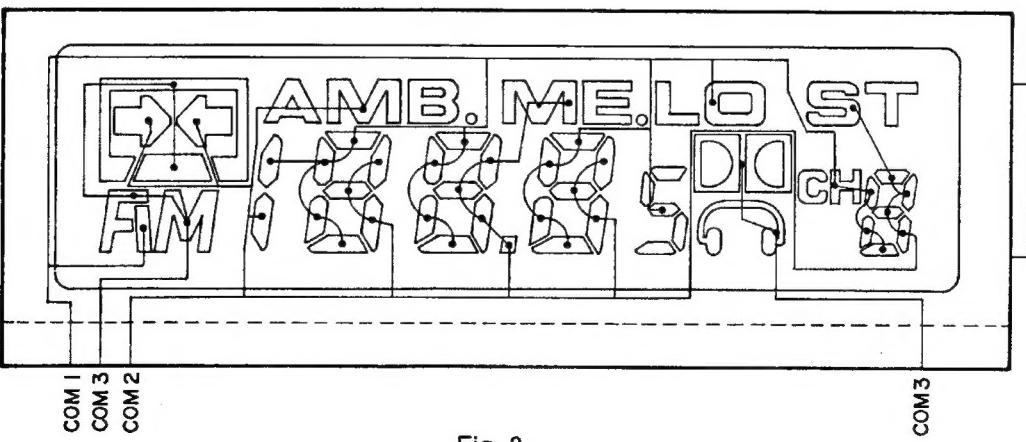


Fig. 2

2) Output signal waveforms of LCD segment

The illumination or nonillumination of segments (LCD1~23) on the LCD is determined by the combination of the segment drive signal and the common drive signals (COM1 and 2) from IC401. (See Fig. 3.)

The illumination or nonillumination of segments other than LCD1~23 (FM, Tape, HS, DO) is determined by the combination of the 80Hz signal made by the oscillation circuits in Q403 and Q404 and the segment drive signal made in IC402.

ex. Example display ("3")

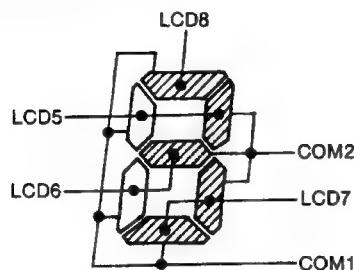
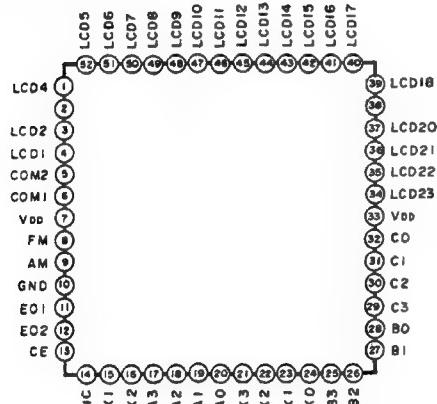


Fig. 3

UPD1708G555 (IC401): EACH TERMINAL FUNCTION & WAVEFORM

1) Terminal View



3) Function of terminal (PLL controller IC401)

Pin No.	Mark	Description of terminal
1 4 34 52	LCD4 LCD1 LCD23 LCD5	Segment signal output terminal for display. (Refer to Fig. 1.)
5	COM2	Common signal output terminal connected to LCD. Output is delivered in 3 values of ground, 1/2Vdd and Vdd (at 5ms intervals) in a period of 50Hz. The segment turns ON when the difference in voltage is \pm Vdd between these terminals and LCD1~LCD23.
6	COM1	
7	Vdd	Power supply terminal of device. Voltage of $5V \pm 10\%$ is supplied during operation of device. To hold the internal data memory (RAM), the voltage can be decreased to 2.5V.
33	Vdd	Note: Pins 7 and 33 are connected inside the chip. It is unnecessary to supply voltage to the pins.
8	FM	Input is local oscillator output (VCO) in a range of 10~130MHz (0.3Vp-p, min.). There are 1/2 fixed frequency division prescaler and 2-step (1/32, 1/33) prescaler internally. Therefore, when deciding the frequency dividing value of programmable divider, it must be decided from the frequency obtained by halving the local oscillator output (VCO).
9	AM	Input is local oscillator output (VCO) in a range of 0.5~20MHz (0.1Vp-p, min.). When the mode is shifted to FM, the AM terminal voltage automatically becomes the supply voltage of device.
10	GND	Ground terminal.
11	E01	When the divided oscillator frequency is higher than the standard frequency, H-level output is delivered from these terminals.
12	E02	When it is lower, L-level (0V) output is delivered. When they coincide, it results in floating.
13	CE	Device selection signal input terminal. The signal level should be high when the device is operated, and low when not operated. With this terminal shifted to low level, LCD (liquid crystal display) turns off and the memory is held.
14	NC	Not used in this unit.
15	X1	Connecting terminal for crystal oscillator. The crystal connected is 4.5MHz.
16	X2	
17	A3 (SD)	Inputs high signal when broadcast is received during auto tuning in the radio mode and low signal at all other times.
18	A2	Outputs high signal when ambience switch is pressed and turns on Q18.

Pin No.	Mark	Description of terminal
19	A1	—
20	A0	—
21 24	K3 K0	Input terminal for key return signal from switch matrix.
25 28	B3 B0	Output terminal for key scan signal to switch matrix.
29	C3	Output METAL-Dx/Lo
30	C2	Outputs switching signal for FM/AM bands. When high signal is output, FM demodulation circuit operates and FM mode is set.
31	C1	Outputs muting signal. Normally high; low during muting.
32	CO	Not used in this unit.
33	Vcc	+5V terminal.

ELECTRICAL PARTS LIST

Numbering System of Resistor

Example	25	F	J	101
Type	Wattage	Shape	Tolerance	Value (100Ω) 2R2
ERX	2	AN	J	
Type	Wattage	Shape	Tolerance	Value (2.2Ω)

Resistor Type	Wattage	Tolerance
ERD: Carbon	10 : 1/8 W	J : ±5%
ERG: Metal Film	12 : 1/8 W	
ERX: Metal Film	25 : 1/4 W	
ERQ: Fuse Type Metal	1 : 1 W	
RRD: Carbon (Chip Type)	18 : 1/8 W	

Numbering System of Capacitor

Example	ECKD	1H	102	Z	F
Type	Type	Voltage	Value (1000 pF) M	Tolerance	Peculiarity
ECEA	50			R47	
Type	Type	Voltage	Peculiarity	Value (0.47 μF)	

Capacitor Type	Voltage		Tolerance
	ECEA Type	Other	
ECEA: Electrolytic	0J : 6.3 V	2H : 500 V DC	C : ±0.25 pF
ECCD: Ceramic	1A : 10 V	1 : 100 V	J : ±5%
ECKD: Ceramic	1C : 16 V	DKC : 400 V AC	K : ±10%
ECOM: Polyester	1E : 25 V		Z : +80%, -20%
ECQP: Propylene	1H : 50 V		P : +100%, -0%
ECET: Electrolytic	1V : 35 V		
ECEA□□□: Non Polar	50 : 50 V		
Electrolytic			
QCU□: Ceramic (Chip Type)	25 : 25 V		
ECUX: Ceramic (Chip Type)	16 : 16 V		

Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.
	CAPACITORS	C 31, 76, 85, 86, 138, 139	ECEA1HKR47	C 151, 155	ECSF1VE104	C 401	RCUX1H102MD
C 1, 2, 4, 8, 9, 10, 15	RCUX1H102MD	C 32, 128, 129	ECEA1HKR33	C 161	ECEA0JK470	C 402	ECOV1H474JZ
C 3	RCUX1H270KC	C 33, 42, 80	ECEA1CK470	C 301, 303, 305, 310, 311, 320, 324, 325, 336,	R	C 403, 404, 405, 413, 420	RCUX1H103ZF
C 5, 11, 81, 83, 89, 107, 109, 119, 121, 124, 125, 134, 135	ECEA1CK100	C 36, 39, 142, 160	RCUX1E223ZF	511, 512, 514	RCUX1E223ZF	C 406	ECEA1HKDR1
C 6, 16	RCUX1H150KC	C 41, 102, 149	ECEA1AK220	C 302	RCUX1H471KB	C 407, 408	RCUX1H202KC
C 12, 13, 20, 25, 40, 68, 69, 88, 103, 105, 110, 115, 116, 164	RCUX1H103ZF	C 45	ECEA1CN100S	C 304	RCUX1H101K	C 409	ECEA1CK100
C 47	RCUX1H271K	C 47	RCUX1H332MD	C 306, 322, 504, 508, 515	ECEA1CK100	C 410, 411, 412	RCUX1H212K
C 14, 19	RCUX1H390KC	C 48, 141, 146, 154	ECUX1E104MD	C 307, 317, 334	ECUX1H153MD	C 414	ECKD1H103ZF
C 18	RCUX1H180KC	C 49, 140	ECEA1CU221	C 308, 327, 505	ECEA1CK470	C 421	ECEA0JK221
C 22, 46, 108, 114, 120, 130, 131	ECUX1E473MD	C 51	ECQP2A102JZ	C 309, 323, 338, 340, 350	RCUX1E103MD	C 422	ECEA0UJ102
C 23	ECUX1H101JR	C 53, 106, 147, 150	ECEA1HKR22	C 312, 326, 519,	ECEA1CK100	C 424	ECEA1HK100
C 24	ECEA1AK470	C 54, 65, 66, 71, 72, 73, 74	ECEA1HKR33	520	ECEA1EK47R	C 425	ECUX1E473MD
C 26, 52	RCUX1E333ZF	C 56, 58	ECSF1CE105	C 313	ECKD1H103ZF	C 426	ECCD1H820K
C 27, 37, 38, 43, 59, 60, 61, 62, 63, 64, 75, 78, 79, 87, 143, 156	ECEA1HK010	C 67	ECEA0JK101	C 314	RCUX1H102MD	C 501, 509	ECSF1CD224
C 28	RCUX1H470KC	C 77, 117	ECEA1CU101	C 315	RCUX1H103ZF	C 502, 506	ECEA0JK330
C 29, 30, 35, 50, 55, 57, 82	RCUX1H223MD	C 84	ECEA1AK330	C 316	RCUX1H220KC	C 510, 521	RCUX1H152MD
C 29	RCUX1H223MD	C 98, 99, 111, 126, 127	ECEA1HKDR1	C 318	ECOP2A471JZ	C 513	ECEA1AU221
C 29	RCUX1H223MD	C 104	ECEA1AU101	C 319	ECEA1HKR47	C 601, 604, 605, 606, 608, 609,	RCUX1H104MD
C 29	RCUX1H223MD	C 112	RCUX1H181K	C 321, 518	ECEA1AK220	610, 611, 612, 613, 614	ECEA1CU471
C 29	RCUX1H223MD	C 113	ECEA1HNR22	C 326	RCUX1E333ZF	C 602, 603	ECUA1U010
C 29	RCUX1H223MD	C 118	RCUX1H560KC	C 329, 516, 517	ECEA1HK010	C 607, 615	ECEA1AU470
C 29	RCUX1H223MD	C 122, 145, 153	ECEA1AU221	C 330	RCUX1H472MD	C 701	ECOV1H334JZ
C 29	RCUX1H223MD	C 123	ECEA1AU471	C 332, 503, 507	RCUX1H682MD	C 702	ECEA1AK470
C 29	RCUX1H223MD	C 136, 137	ECUX1E333MD	C 342	RCUX1H332MD	C 703	ECUX1E473MD
C 29	RCUX1H223MD	C 144	ECEA1CU471	C 344	ECUX1H223MD	C 706, 707	ECUX1E104MD
C 29	RCUX1H223MD	C 148, 152	RCUX1H472MD	C 346	ECUX1E473MD	C 708	RCUX1H682MD
C 29	RCUX1H223MD			C 348	ECEA1HK01	C 709	ECEA1CU330
C 29	RCUX1H223MD					C 710, 711	

Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.
RESISTORS							
R 1, 2	ERJ6GCJ681	R 30, 59, 60, 154, 164, 165, 174, 175, 181, 202	ERJ6GCJ332	R 304	ERJ6GCJ105	R 514, 515, 521	ERJ6GCJ272
R 3, 14, 16, 51, 52, 82, 83, 91, 93, 97, 98, 121, 122, 127, 128, 129, 132, 134, 135, 137, 138, 139, 140, 141, 188	ERJ6GCJ104	R 31	ERD25FJ103	R 305	ERJ6GCJ270	R 523	ERJ6GCJ333
R 4, 104, 120, 200	ERJ6GCJ224	R 33, 75	ERJ6GCJ821	R 306	ERJ6GCJ182	R 524	ERJ6GCJ331
R 5, 172, 173	ERJ6GCJ274	R 34, 44	ERJ6GCJ123	R 308	ERJ6GCJ330	R 525	ERJ6GCJ881
R 6, 15, 27, 35, 86, 87, 88, 89, 102, 103, 118, 124, 133, 153, 176, 177, 184	ERJ6GCJ473	R 36, 39, 47, 48, 56, 67, 68, 73, 74, 80, 81, 84, 85, 92, 95, 106, 136	ERJ6GCJ223	R 310, 330, 333	ERJ6GCJ470	R 530	ERJ6GCJ561
R 7, 156	ERJ6GCJ334	R 311, 312, 314, 522	ERJ6GCJ104	R 313, 317, 319	ERJ6GCJ103	R 702, 712, 714	ERJ6GCJ224
R 8	ERJ6GCJ181	R 315	ERJ6GCJ101	R 316, 527, 528	ERJ6GCJ473	R 703, 720, 722	ERJ6GCJ222
R 9, 10	ERJ6GCJ470	R 318	ERJ6GCJ152	R 322, 324, 326, 526, 529	ERJ6GCJ222	R 704	ERJ6GCJ333
R 11, 18, 21, 32, 40, 99, 105	ERJ6GCJ101	R 323, 328	ERJ6GCJ153	R 325	ERJ6GCJ151	R 705, 713	ERJ6GCJ104
R 12, 22, 26, 61, 62, 65, 66, 100, 101, 119, 157, 158, 187	ERJ6GCJ102	R 332	ERJ6GCJ563	R 334	ERJ6GCJ183	R 706	ERJ6GCJ471
R 13	ERJ6GCJ103	R 401	ERJ6GCJ562	R 402	ERJ6GCJ222	R 707, 710	ERJ6GCJ472
R 14	ERJ6GCJ104	R 403	ERJ6GCJ472	R 322, 324, 326, 526, 529	ERJ6GCJ222	R 708, 709	ERJ6GCJ473
R 15	ERJ6GCJ105	R 404, 414	ERJ6GCJ473	R 323, 328	ERJ6GCJ153	R 711	ERJ6GCJ223
R 16	ERJ6GCJ154	R 405, 406, 407, 408, 409, 410,	ERJ6GCJ103	R 325	ERJ6GCJ151	R 715	ERJ6GCJ122
R 17	ERJ6GCJ123	416	ERJ6GCJ104	R 332	ERJ6GCJ563	R 716, 718	ERJ6GCJ103
R 18	ERJ6GCJ151	R 412	ERJ6GCJ331	R 334	ERJ6GCJ183	R 717	RRD18XJ103
R 19	ERJ6GCJ271	R 413	ERJ6GCJ102	R 417, 419	ERJ6GCJ223	R 719	RRD18XJ122
R 20	ERJ6GCJ149	R 418	ERJ6GCJ333	R 420	ERJ6GCJ101	R 721, 724	ERJ6GCJ102
R 21	ERJ6GCJ190	R 422, 423, 425, 426	ERJ6GCJ393	R 422	ERJ6GCJ101	R 723, 725	RRD18XJ102
R 22	ERJ6GCJ167	R 424	ERJ6GCJ470	R 424	ERJ6GCJ393	RJ 301, 302,	
R 23	ERJ6GCJ169	R 427	ERJ6GCJ470	R 424	ERJ6GCJ4683	303, 304,	
R 24	ERJ6GCJ171	R 428	ERJ6GCJ561	R 424	ERJ6GCJ4683	305, 306,	
R 25	ERJ6GCJ182	R 501, 513	ERJ6GCJ274	R 428	ERJ6GCJ561	307, 503, 504	ERJ6GCJ000
R 26	ERJ6GCJ192	R 502, 509	ERJ6GCJ224	RJ 401, 402	ERJ6GCJ000	RJ 401, 402	ERJ6GCJ000
R 27	ERJ6GCJ193	R 503, 508, 517	ERJ6GCJ334	RJ 501, 502, 601	RRD18XK000	RJ 501, 502, 601	RRD18XK000
R 28	ERJ6GCJ194	R 504, 510	ERJ6GCJ121	RJ 701, 702,		RJ 701, 702,	
R 29	ERJ6GCJ198	R 506, 512, 520,	ERJ6GCJ223	RJ 703, 704,		703, 704,	
R 30	ERJ6GCJ201	519	ERJ6GCJ223	RJ 705, 706,		705, 706,	
R 31	ERJ6GCJ206	R 507	ERDS2TJ101	RJ 707, 708,		707, 708,	
R 32	ERDS2TJ104			RJ 709, 712		709, 712	ERJ6GCJ000
R 33	ERJ6GCJ474			RJ 707, 710, 711		RJ 707, 710, 711	RRD18XK000
CHIP JUMPER							
RJ 1, 2, 3, 4, 5 RRD18XK000							
RJ 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 ERJ6GCJ000							
RJ 301, 302, 303, 304, 305, 306, 307, 503, 504 ERJ6GCJ000							
RJ 401, 402 ERJ6GCJ000							
RJ 501, 502, 601 RRD18XK000							

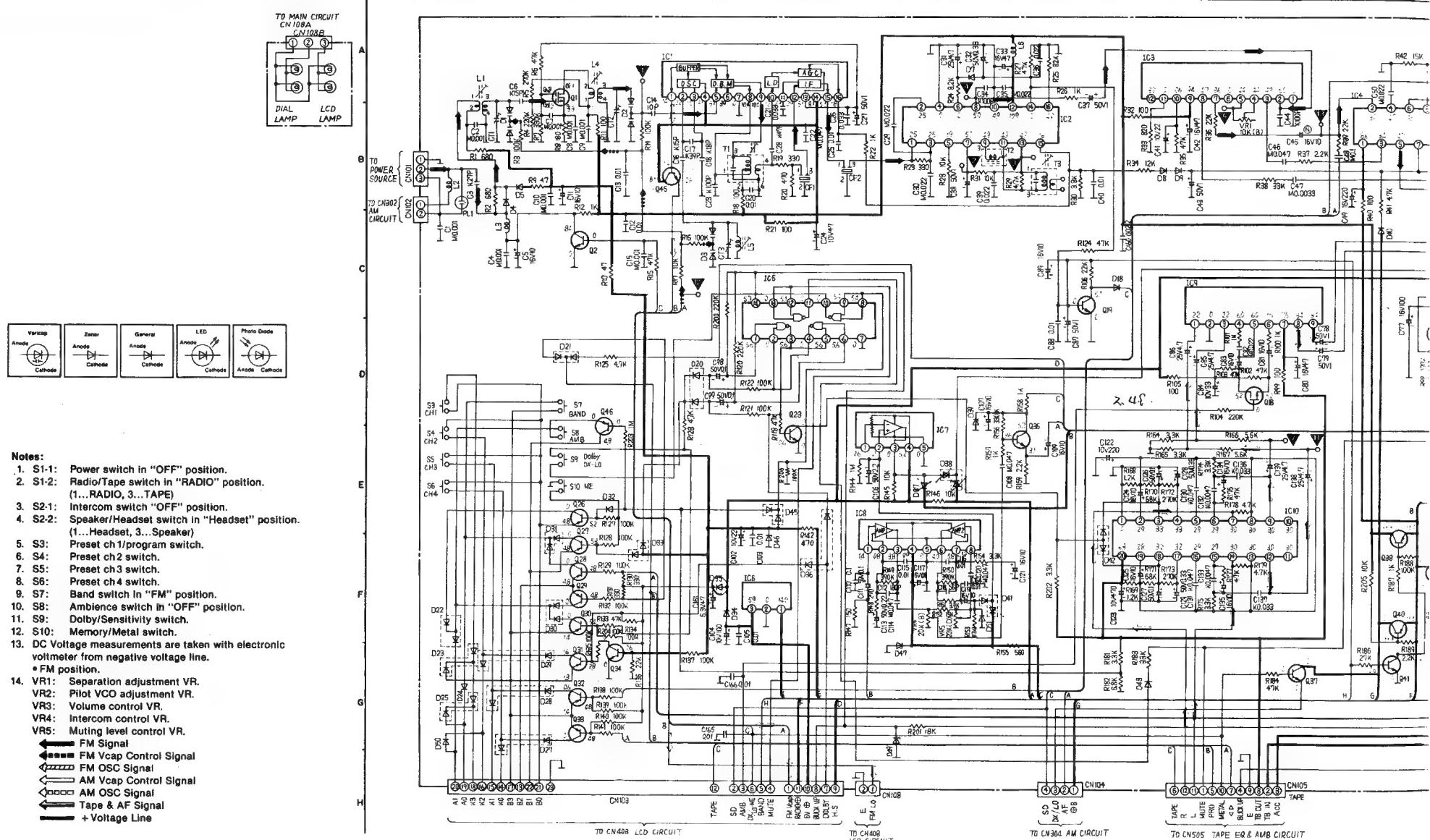
■ PARTS NO. FUNCTION NAME AND ZONE NO. SCHEMATIC DIAGRAM (MAIN CIRCUIT)

Ref. No.	Zone	Part No.	Function Name	Ref. No.	Zone	Part No.	Function Name
IC1	A · 4	LA1170	FM MIX & OSC	Q1	A · 2	3SK114Y	FM RF AMP
IC2	B · 6	RVILA1140	FM IF & DET	Q2	C · 2	2SD601R	SWITCHING
IC3	A · 8	RVISTK2110D	FM NOISE BRANKER	Q4	B · 12	2SD601R	SWITCHING
IC4	B · 10	RVILA3375	FM STEREO MPX	Q5	C · 12	2SD601R	SWITCHING
IC5	D · 4	RVITC4011BP	PRE SCALOR	Q6	A · 13	2SD601S	PRE AMP
IC6	F · 4	RVITA78L006P	REGULATOR	Q7	B · 13	2SD601S	PRE AMP
IC7	D · 5	RVIM51203L	MUTE CONTROLLER	Q8	A · 13	2SD601Q	BUFFER AMP
IC8	E · 5	RVIUPC1228H	DUAL OPERATIONAL AMP	Q9	B · 13	2SD601Q	BUFFER AMP
IC9	C · 9	RVIBA6133	DUAL POWER AMP	Q10	B · 14	2SD601R	SWITCHING
IC10	E · 8	RVILM1131C	AMBIENCE	Q11	C · 14	2SD601R	SWITCHING
IC11	E · 13	RVITAT230P	DOLBY NR	Q12	D · 14	2SD601R	SWITCHING

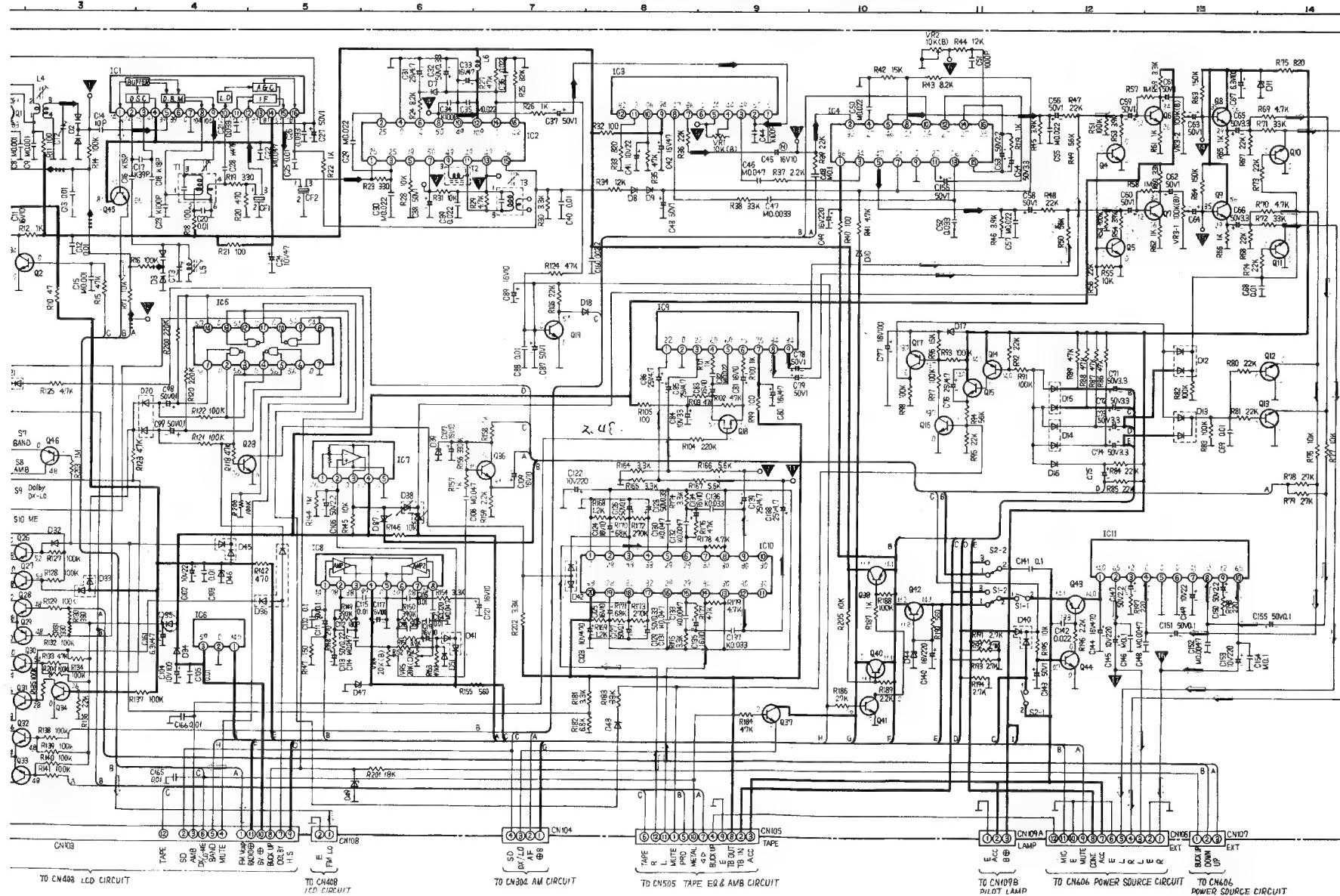
Ref. No.	Zone	Part No.	Function Name	Ref. No.	Zone	Part No.	Function Name
Q13	D · 14	2SD601R	SWITCHING	D12	D · 13	MA151WK	SWITCHING
Q14	D · 11	2SB709R (2SB709)	SWITCHING	D13	D · 13	MA151WK	SWITCHING
Q15	D · 11	2SD601R	SWITCHING	D14	D · 12	MA151WA	SWITCHING
Q16	D · 11	2SD601R	SWITCHING	D15	D · 12	MA151WA	SWITCHING
Q17	D · 11	2SB709R (2SB709)	SWITCHING	D16	E · 12	MA165	SWITCHING
Q18	D · 9	2SK160K5	SWITCHING	D17	C · 11	MA165	SWITCHING
Q19	C · 7	2SD601R	SWITCHING	D18	C · 8	MA165	SWITCHING
Q23	D · 5	2SD601R	SWITCHING	D20	D · 4	MA151WK	SWITCHING
Q26	E · 2	2SB709R (2SB709)	SWITCHING	D21	D · 2	MA151WK	SWITCHING
Q27	F · 2	2SB709R (2SB709)	SWITCHING	D22	F · 1	MA153	SWITCHING
Q28	F · 2	2SB709R (2SB709)	SWITCHING	D23	G · 1	MA151WK	SWITCHING
Q29	F · 2	2SB709R (2SB709)	SWITCHING	D24	G · 1	MA165	SWITCHING
Q30	F · 2	2SB709R (2SB709)	SWITCHING	D25	G · 1	MA151WK	SWITCHING
Q31	G · 2	2SB709R (2SB709)	SWITCHING	D27	G · 2	MA153	SWITCHING
Q32	G · 2	2SB709R (2SB709)	SWITCHING	D28	G · 2	MA153	SWITCHING
Q33	G · 2	2SB709R (2SB709)	SWITCHING	D29	G · 2	MA153	SWITCHING
Q34	G · 3	2SD601R	SWITCHING	D30	F · 2	MA151WK	SWITCHING
Q36	E · 7	2SD601R	SWITCHING	D31	F · 2	MA151WK	SWITCHING
Q37	G · 8	2SD601R	SWITCHING	D32	E · 3	MA161	SWITCHING
Q38	F · 10	2SA684-RNC	SWITCHING	D33	F · 3	MA151WA	SWITCHING
Q40	F · 10	2SA952K2	SWITCHING	D34	F · 4	MA165	SWITCHING
Q41	G · 10	2SD601R	SWITCHING	D35	F · 4	MA165	SWITCHING
Q42	F · 10	2SC1383Q	REGULATOR	D36	F · 5	MA151WA	SWITCHING
Q43	F · 12	2SA684-RNC	SWITCHING	D37	E · 6	MA165	SWITCHING
Q44	F · 12	2SD601R	SWITCHING	D38	E · 6	MA151WK	SWITCHING
Q45	B · 3	2SC2404C	OSC BUFFER	D39	E · 6	MA1056	REGULATOR
Q46	D · 3	2SC1684R	SWITCHING	D40	F · 11	MA151WK	SWITCHING
D1	B · 2	RVD1SV103	FM TUNING	D41	F · 6	MA153	SWITCHING
D2	B · 3	RVD1SV103	FM TUNING	D42	F · 7	MA151WA	SWITCHING
D3	C · 4	RVD1SV103	FM TUNING	D43	G · 7	MA161	SWITCHING
D4	B · 2	MA56	SWITCHING	D44	F · 10	MA1120	REGULATOR
D5	B · 2	MA56	SWITCHING	D45	E · 4	MA151WK	SWITCHING
D6	C · 5	MA1082M	REGULATOR	D46	F · 4	MA1056	SWITCHING
D7	A · 6	MA165	SWITCHING	D47	F · 5	MA1100	SWITCHING
D8	B · 8	RVDKB265G	SWITCHING	D49	H · 6	RVDRD6R2EB	REGULATOR
D9	B · 8	MA165	SWITCHING	D50	G · 1	MA165	SWITCHING
D10	C · 10	MA165	SWITCHING	D51	F · 6	MA165	SWITCHING
D11	A · 14	MA1056	REGULATOR	D74		MA165	

() Supply Parts Number.

SCHEMATIC DIAGRAM (MAIN)

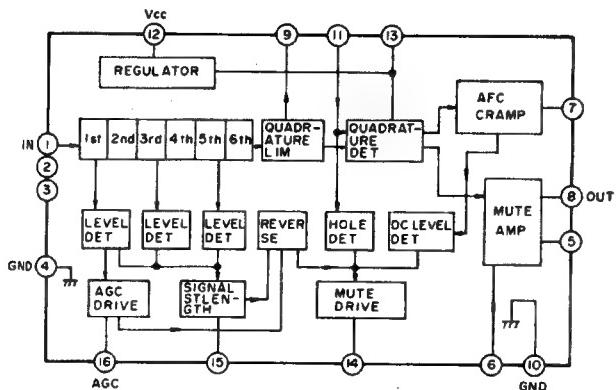


SCHEMATIC DIAGRAM (MAIN)

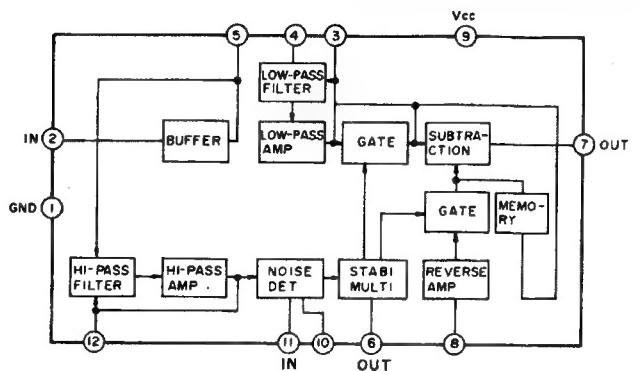


■ IC BLOCK DIAGRAM

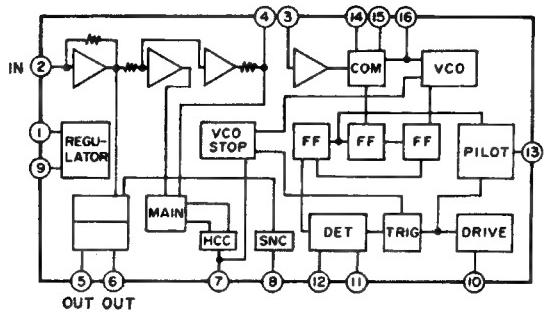
IC2 RVILA1140



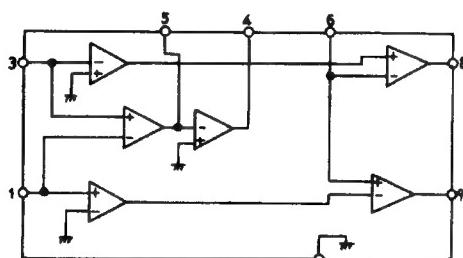
IC3 RVISTK2110D



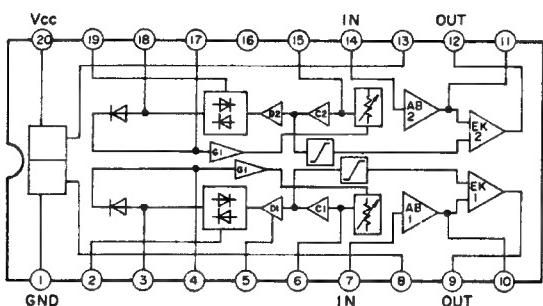
IC4 RVILA3375



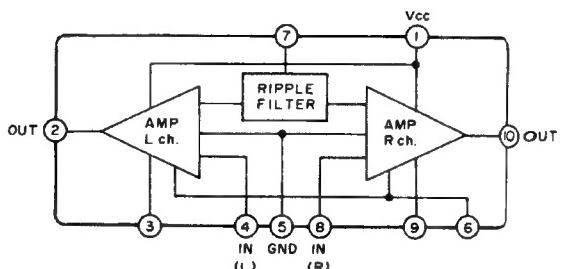
IC9 RVIBA6133



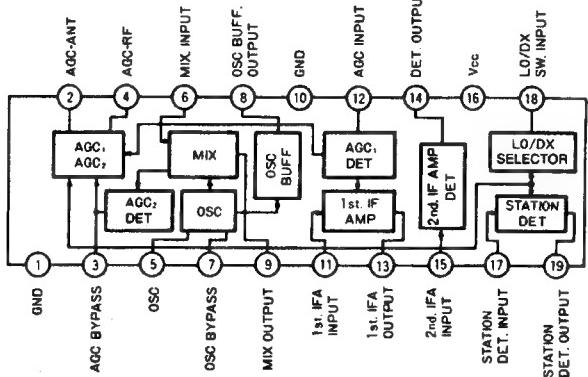
IC10 RVILM1131C



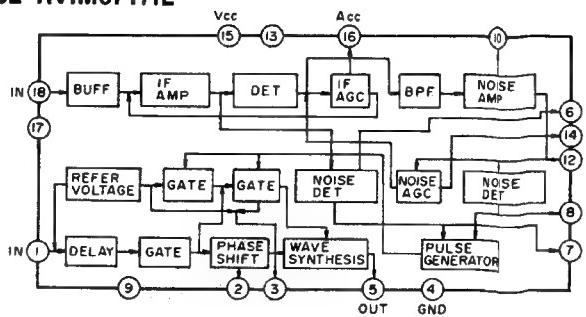
IC11 RVITA7230P



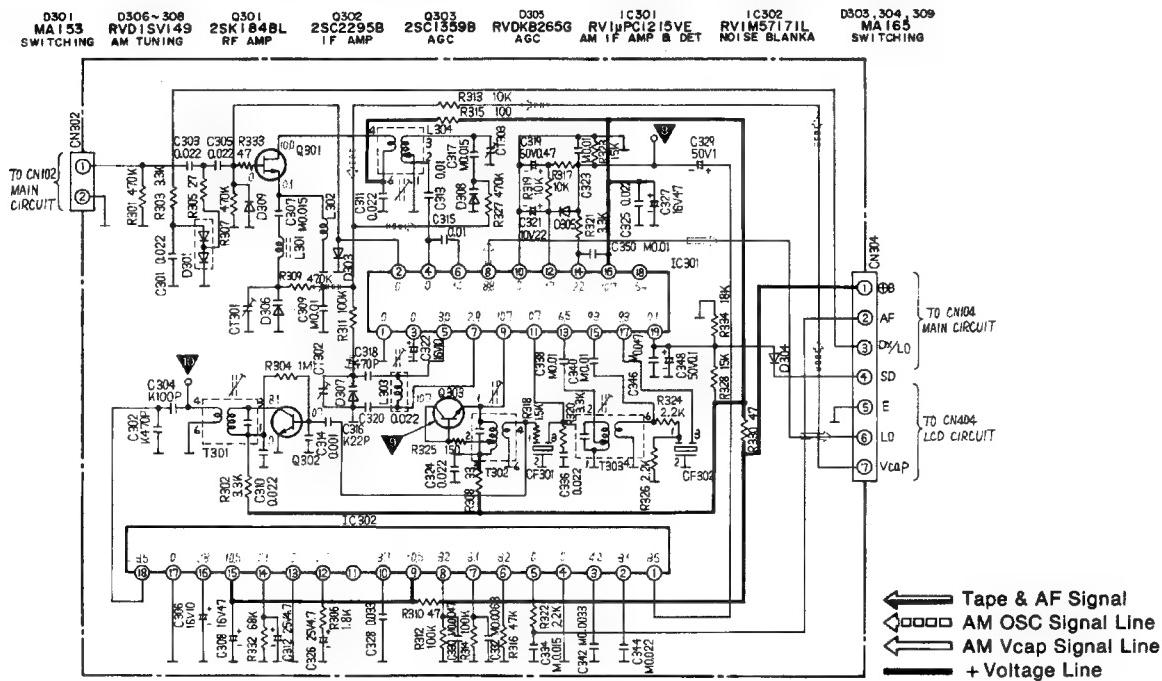
IC301 RVIUPC1215VE



IC302 RVIM5717IL



SCHEMATIC DIAGRAM (AM)

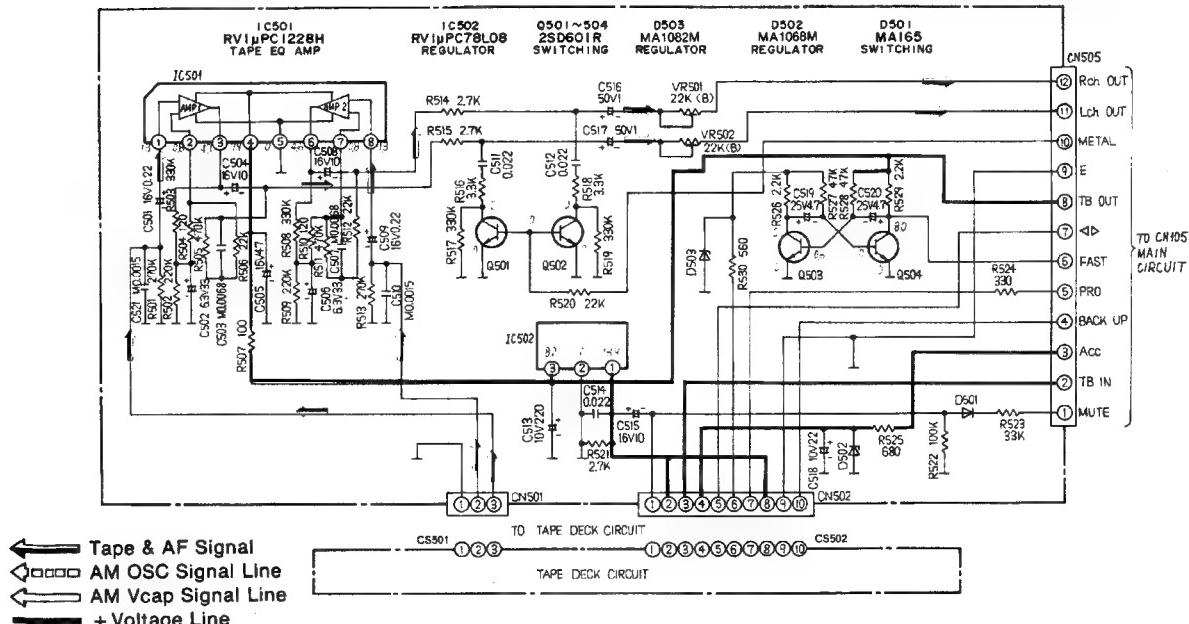


Note:

DC voltage measurements are taken with electronic voltmeter from negative voltage line.

- AM position.

SCHEMATIC DIAGRAM (TAPE EQ & AMBIENCE)



Note:

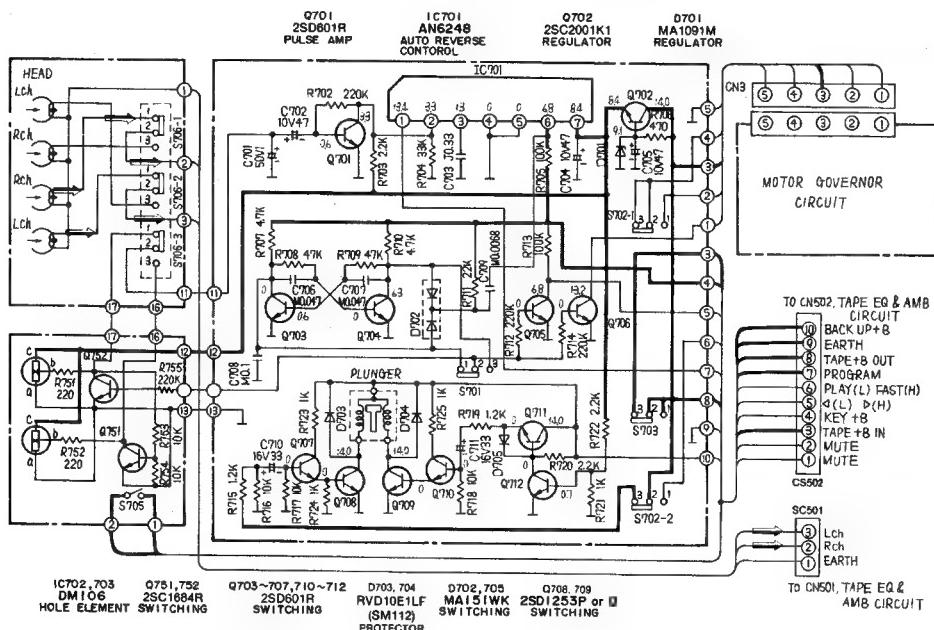
Note: DC voltage measurements are taken with electronic voltmeter from negative voltage line.

- AM position

VB501: Dolby level (B) adjustment VB-

VR501: Dolby level (R) adjustment VR.
VR502: Dolby level (L) adjustment VB.

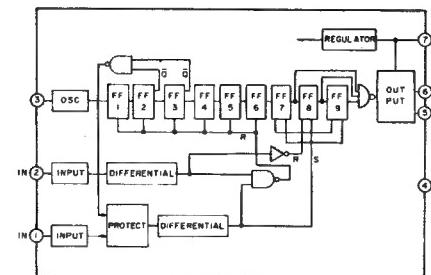
SCHEMATIC DIAGRAM (TAPE DECK)



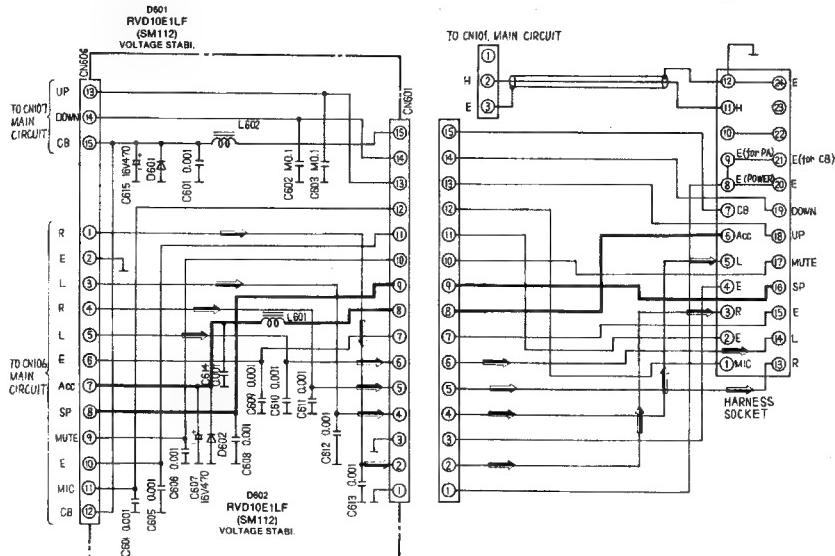
Notes:

1. S701: Forward/Reverse switch in "Forward" position.
(1...Forward, 3...Reverse)
2. S702-1: Motor speed switch in "FAST" position.
(1...FAST, 3...PLAY)
3. S702-2: Plunger switch in "ON" position.
(1...ON, 3...OFF)
4. S703: Tape switch in "ON" position.
(1...OFF, 3...ON)
4. S705: Mute switch.
5. S706-1, S706-2: Head switch.
6. S706-3: Hole Element switch.
7. DC voltage measurements are taken with electronic voltmeter from negative voltage line.
• Tape position.

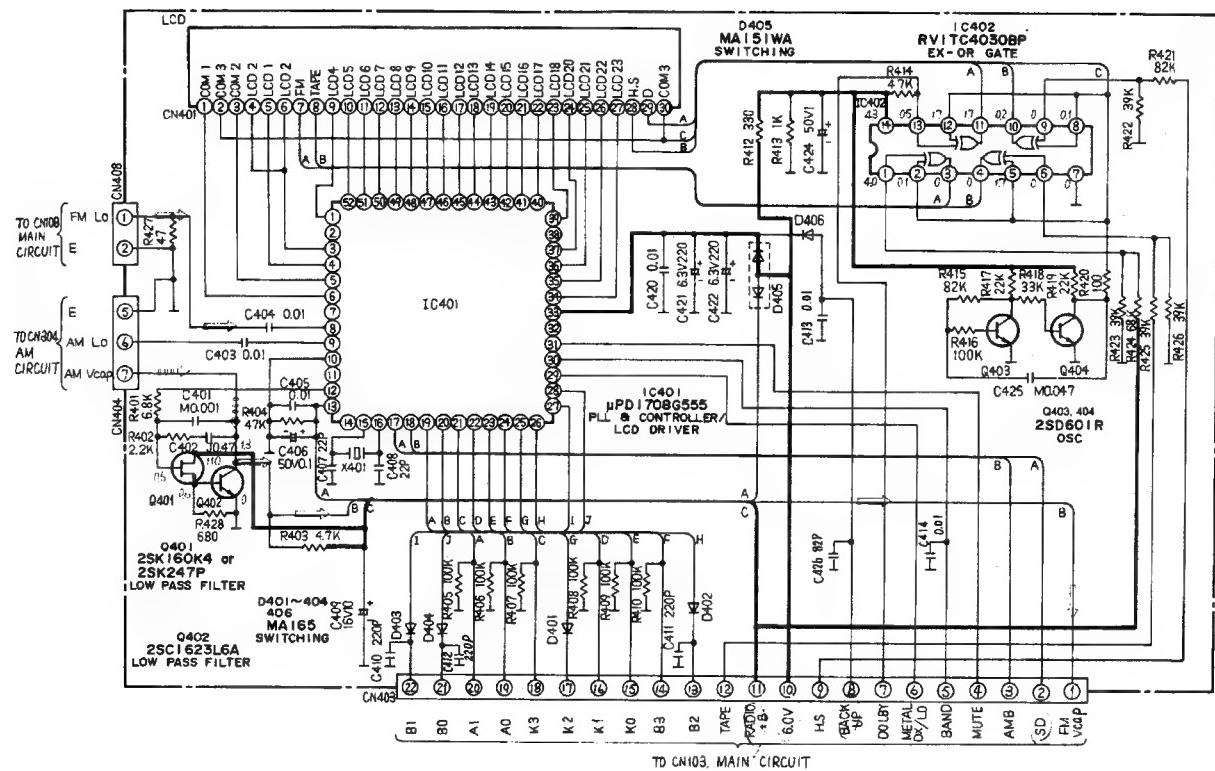
IC701 AN6248



SCHEMATIC DIAGRAM (POWER SOURCE)

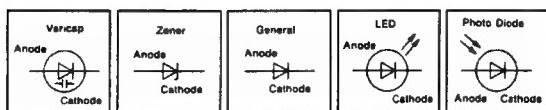


SCHEMATIC DIAGRAM (LCD)

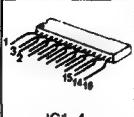
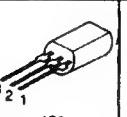
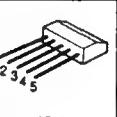
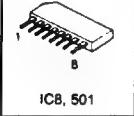
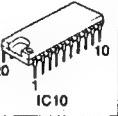
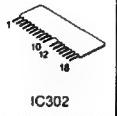
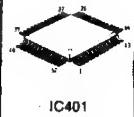
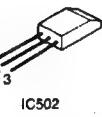
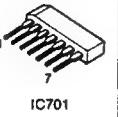
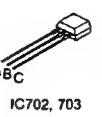
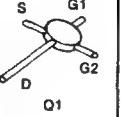
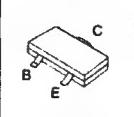
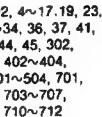
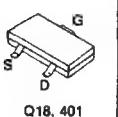
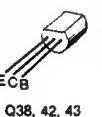
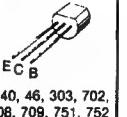
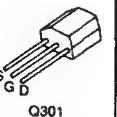
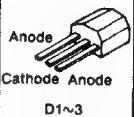
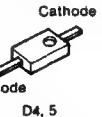
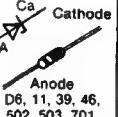
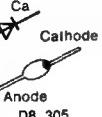
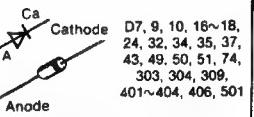
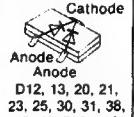
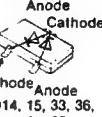
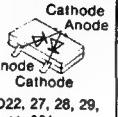
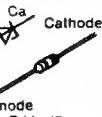
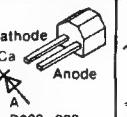
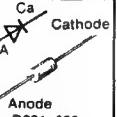
**Note:**

DC voltage measurements are taken with electronics voltmeter from negative voltage line.
• FM/Local/Headset position.

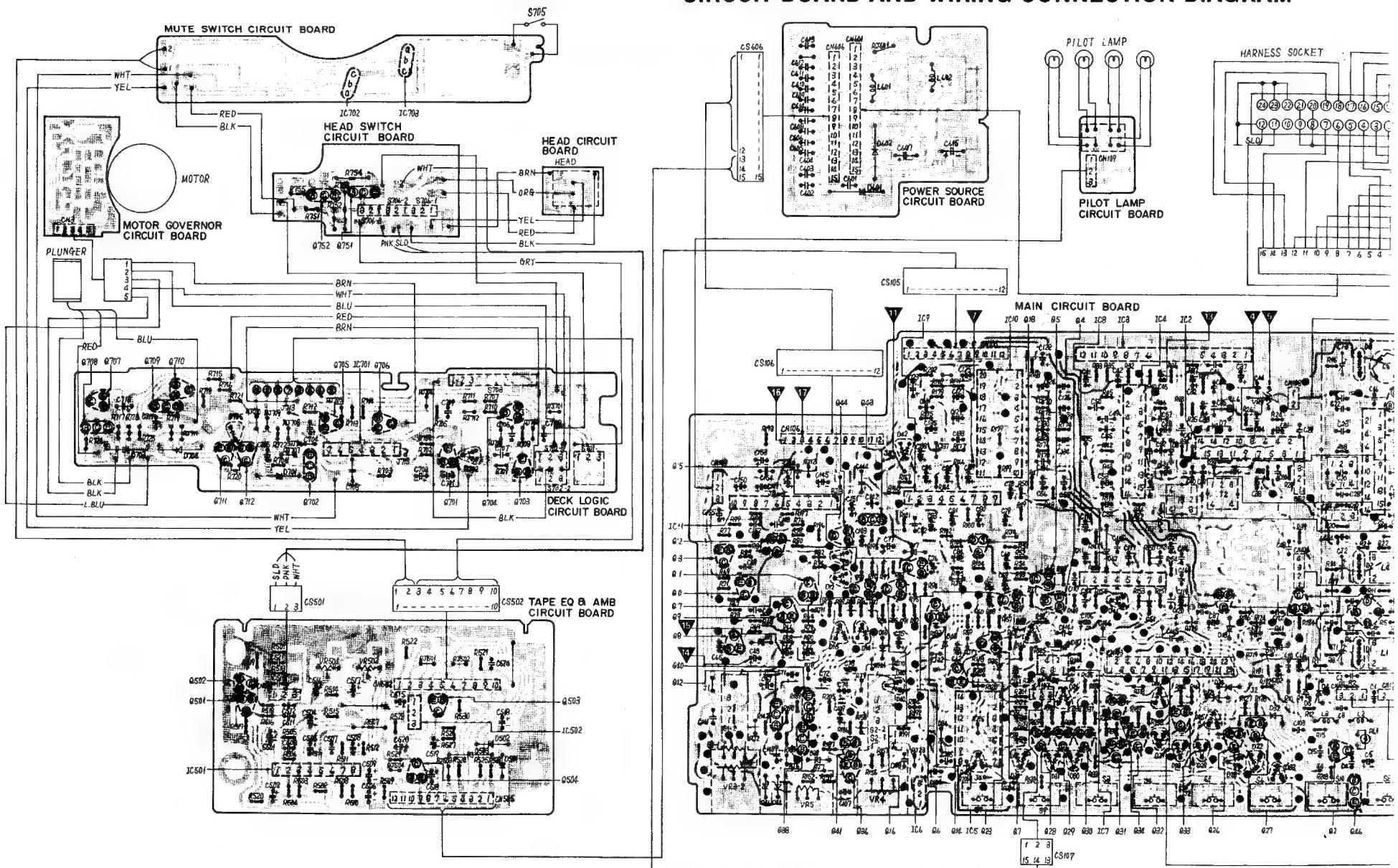
↗ FM OSC Signal
 ↙ AM Vcap Control Signal
 ↘ AM OSC Signal
 — + Voltage Line



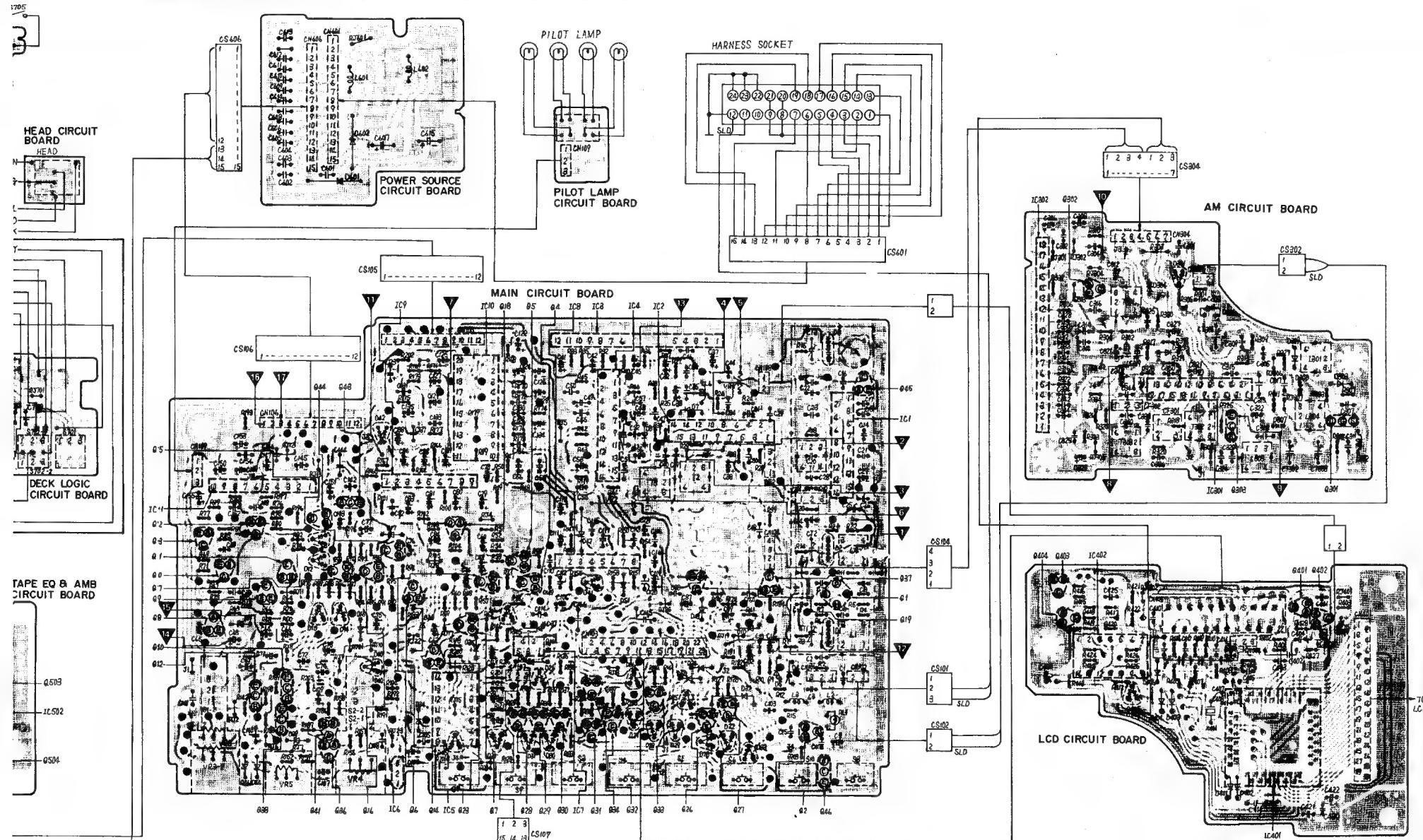
TERMINATIONS

					
IC1, 4	IC2	IC3	IC51, 402	IC6	IC7
					
IC8, 501	IC9	IC10	IC11	IC301	IC302
					
IC401	IC502	IC701	IC702, 703	Q1	
					
C	Q2, 4~17, 19, 23, 26~34, 36, 37, 41, 44, 45, 302, 402~404, 501~504, 701, 703~707, 710~712	Q18, 401	Q38, 42, 43	Q40, 46, 303, 702, 708, 709, 751, 752	Q301
					
Anode Cathode Anode D1~3	Cathode Anode Anode D4, 5	Anode Cathode Anode D6, 11, 39, 46, 502, 503, 701	Anode Cathode Anode D8, 305	D7, 9, 10, 16~18, 24, 32, 34, 35, 37, 43, 49, 50, 51, 74, 303, 304, 309, 401~404, 406, 501	
					
D12, 13, 20, 21, 23, 25, 30, 31, 38, 40, 45, 702, 705	D14, 15, 33, 36, 42, 405	D22, 27, 28, 29, 41, 301	D44, 47	D306~308	D601, 602

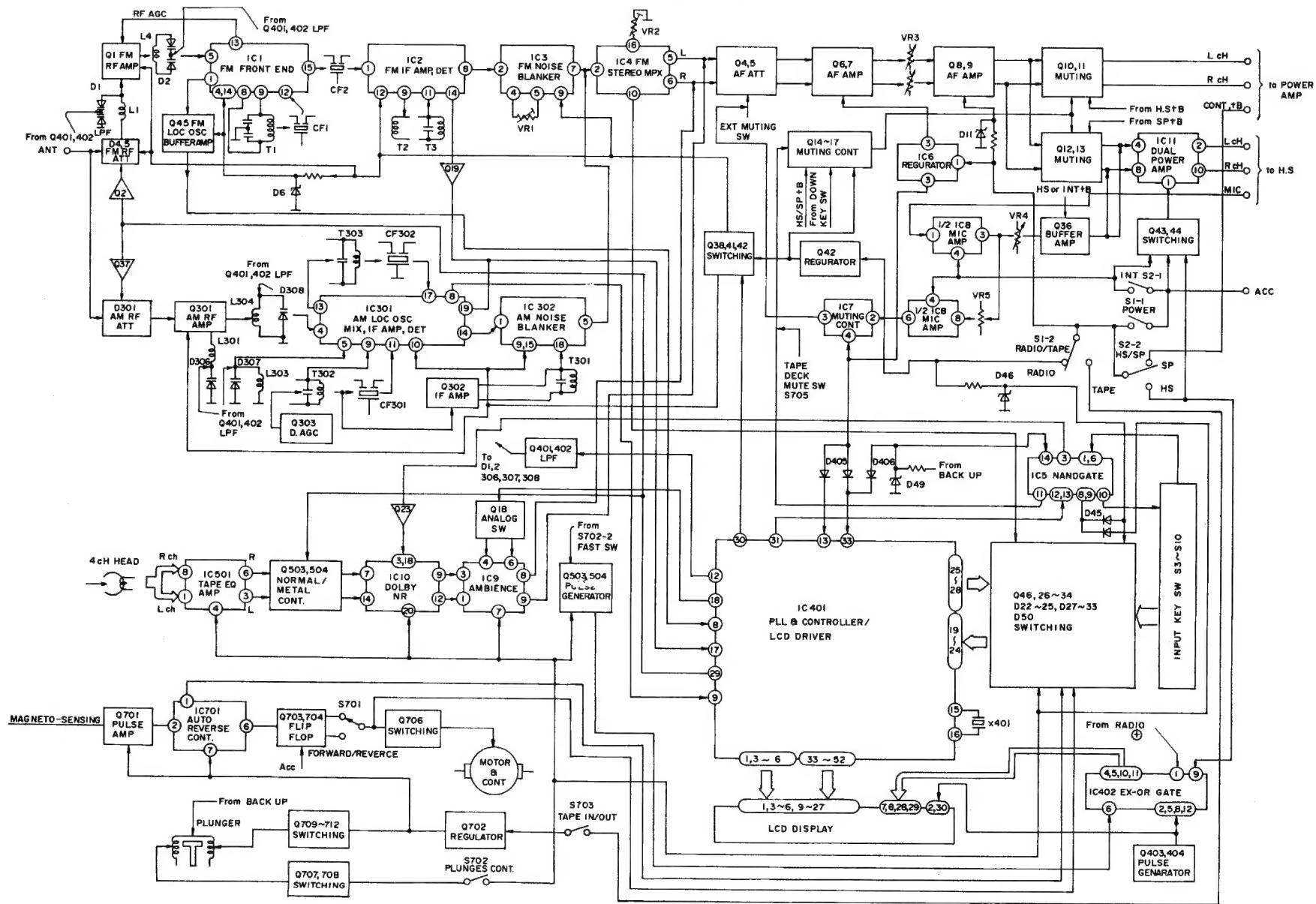
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



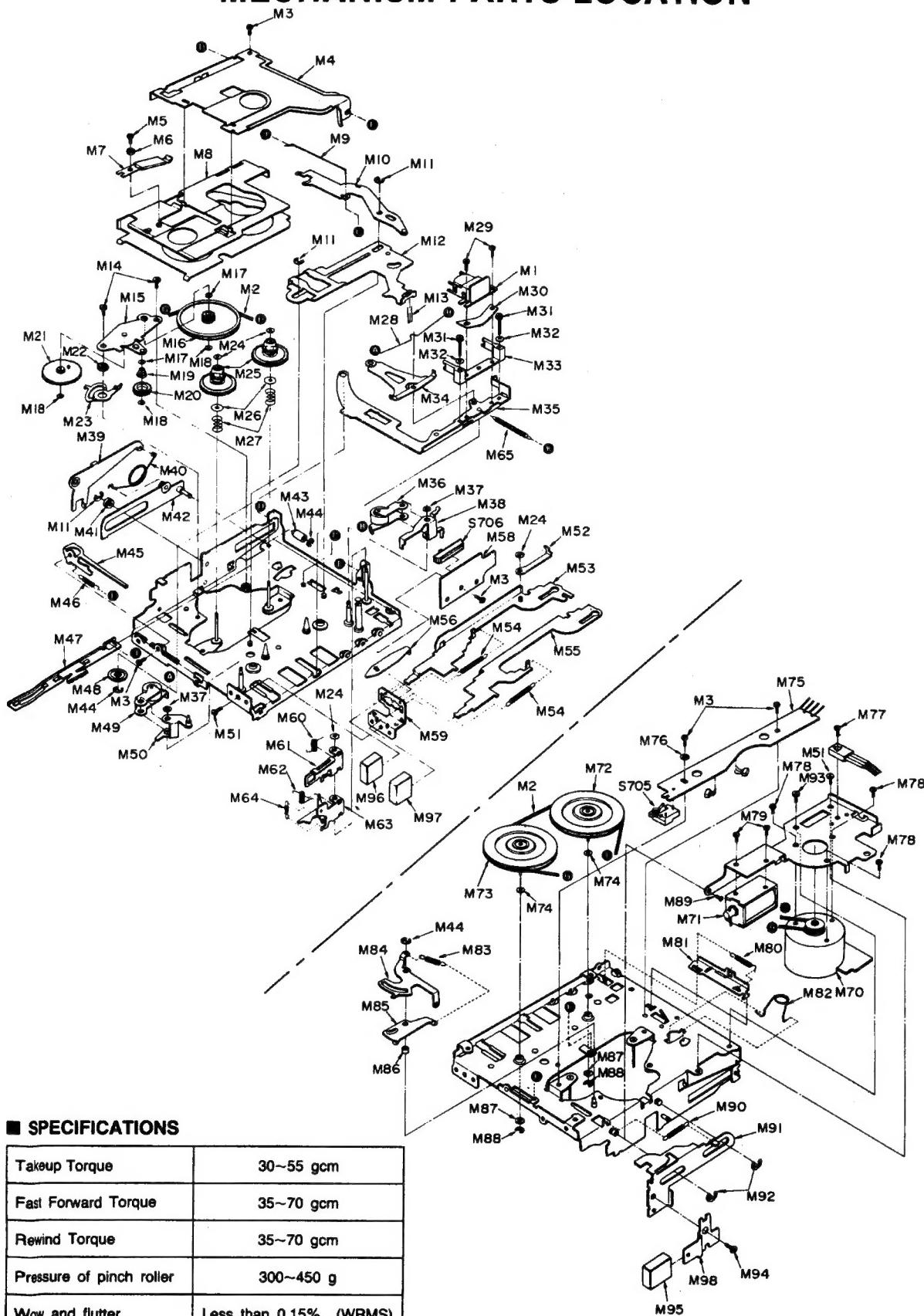
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



BLOCK DIAGRAM



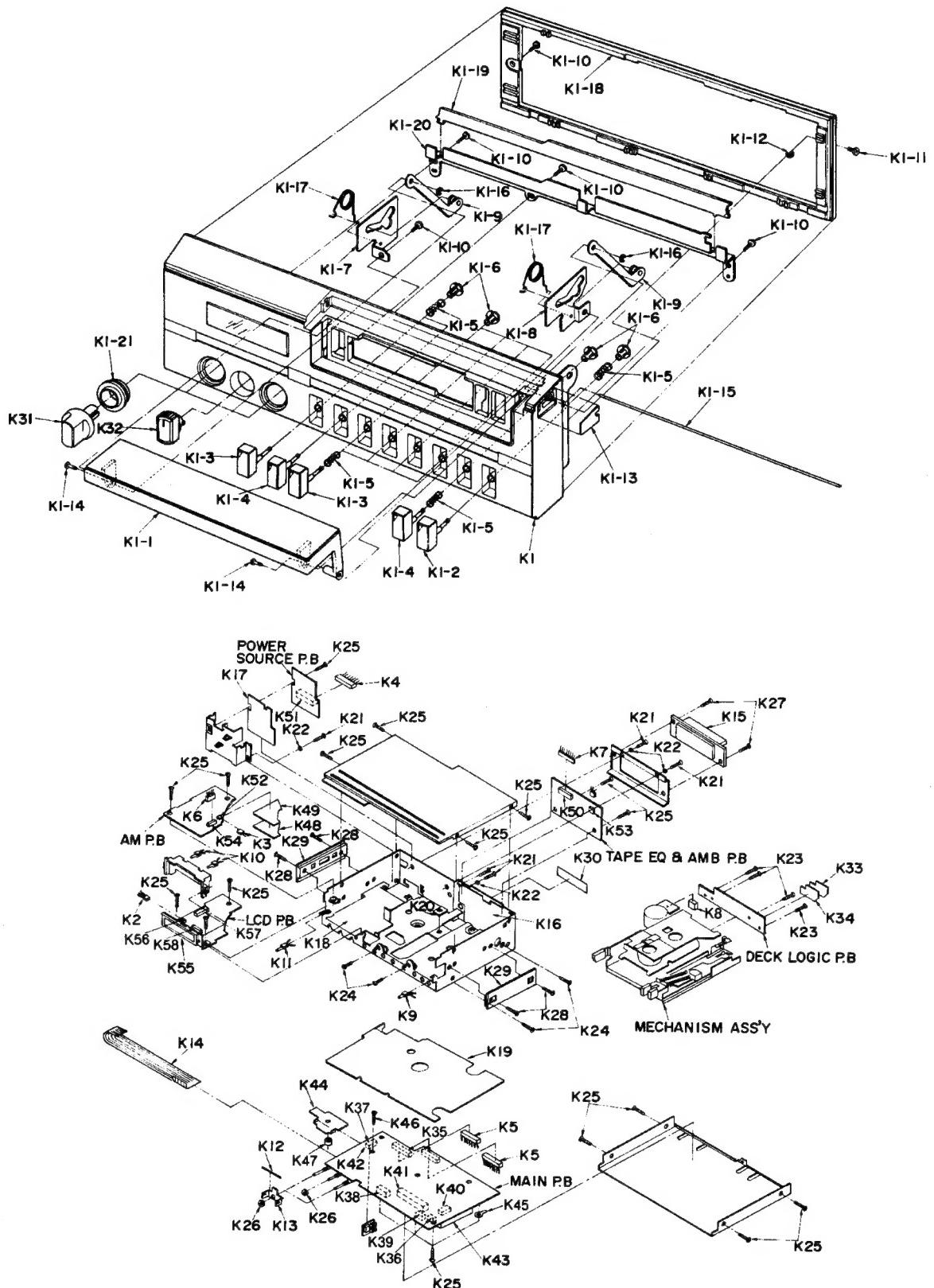
MECHANISM PARTS LOCATION



■ SPECIFICATIONS

Takeup Torque	30~55 gcm
Fast Forward Torque	35~70 gcm
Rewind Torque	35~70 gcm
Pressure of pinch roller	300~450 g
Wow and flutter	Less than 0.15% (WRMS)

CABINET PARTS LOCATION



RM-1300A/RM-1400A

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
MECHANICAL PARTS								
M 1	RFH6Z	Playback Head Ass'y	M 64	RFS301Z	Spring, Lock Release Plate	K 1-17	RUS515Z	Spring, Cassette Cover
M 2	RFB30Z	Main Belt	M 65	RFS346Z	Spring, Head Panel Ass'y	K 1-18	RHG900Z	Rubber, Front Panel
M 3	RFE109Z	Screw, Case Lifter etc. M'tg	M 70	MMX4H2WDA	Motor Ass'y	K 1-19	RGE74Z	Panel, Indicator
M 4	RFD153Z	Case Lifter	M 71	RSE99Z	Key Off Plunger	K 1-20	RUH5YA	Angle, Indicator
M 5	RFE90Z	Screw, Pack Pressure Spring	M 72	UFF19Z	Flywheel Ass'y	K 1-21	RHG3001Z	Rubber, Knob
		M'tg	M 73	UFF18Z	Flywheel Ass'y	K 2	RWN1M1300AJH	Socket Ass'y, CN 108, 408
M 6	RFX77Z	Spacer, Pack Pressure Spring	M 74	RFN85Z	Nylon Washer, Flywheel	K 3	RWN2M1300AJM	Socket Ass'y, CN 102, 302
M 7	RFS306Z	Spring, Pack Pressure	M 75	RFT6Z	Circuit Board	K 4	RWN3M1300AJH	Socket Ass'y, CN 106, 107, 606
M 8	RFD152Z	Cassette Case B	M 76	RFN72Z	Washer, Circuit Board	K 5	RWN4M1300AJH	Socket Ass'y, CN 105, 505
M 9	RFS298Z	Tension Spring	M 77	RFE112Z	Screw, Transistor M'tg	K 6	RWN5M1300AJH	Socket Ass'y, CN 104, 404
M 10	RFY239Z	Change Lever	M 78	RFE113Z	Screw, Motor Ass'y M'tg	K 7	RWN6M1300AJH	Socket Ass'y, CN 502
M 11	XUC2FT	E Ring, Main Plate, etc. M'tg	M 79	RFE91Z	Screw, Key Off Plunger M'tg	K 8	RWN7M1300AJH	Socket Ass'y (Tape, Motor)
M 12	RFU19Z	Main Plate	M 80	RFS305Z	Spring, Switch Lever Arm	K 9	RWN8M1300AJH	Socket/Lamp Ass'y (PL 4)
M 13	RFS296Z	Spring, Switch Operation	M 81	RFY252Z	Switch Lever Arm	K 10	RWN9M1300AJH	Socket/Lamp Ass'y (PL 1, 5)
M 14	RFE110Z	Screw, Gear Plate A M'tg	M 82	RFS297Z	Reverse Spring, Change	K 11	RWN10M1300AJ	Socket/Lamp Ass'y (PL 2)
M 15	RFD150Z	Gear Plate A	M 83	RFS308Z	Plate	K 12	RUSS42Z	Spring, Volume
M 16	RFG40Z	Main Gear	M 84	RFY255Z	Spring, Key Off Plate B	K 13	RMD2056Z	Bracket
M 17	RFN87Z	Nylon Washer, FF/REW Gear	M 85	RFY254Z	Key Off Plate B	K 14	RJE161Z	Lead Wire
M 18	SMQ4930	Washer	M 86	RFX78Z	Key Off Plate A	K 15	RJS0R1Z	Socket
M 19	RFS299Z	Spring, FF/REW Gear	M 87	RFN88Z	Spacer, Key Off	K 16	RMX248Z	Insulator
M 20	RGF42Z	FF/REW Gear			Nylon Washer, Flywheel	K 17	RMX249Z	Insulator
M 21	RFG41Z	Reverse Gear	M 88	RFE114Z	Ass'y	K 18	RMX250Y	Insulator
M 22	RFX74Z	Spacer, Gear Plate	M 89	RFE108Z	E Ring, Flywheel Ass'y M'tg	K 19	RMX252Y	Insulator
M 23	RFY241Z	Reed Plate	M 90	RFS304Z	Screw, Motor Bracket M'tg	K 20	RMX256Z	Insulator
M 24	SMQ4928	Washer, Reel Table	M 91	RFY251Z	Spring, Eject Lever	K 21	XSN3+4S	Screw, Bracket, Socket M'tg
M 25	RFJ26Z	Reel Table	M 92	XUC3FT	Lever, Eject	K 22	XWA3B	Washer
M 26	RFN86Z	Nylon Washer, Reel Table	M 93	XTN26+4H	E Ring, Eject Lever M'tg	K 23	XTN2+4B	Screw, Circuit Board M'tg
M 27	RFS309Z	Spring, Reel Table	M 94	XYN26+J5	Screw, Motor Bracket M'tg	K 24	XTV26+5F	Screw, Deck M'tg
M 28	RFS295Z	Spring, Pinch Roller Arm	M 95	RBC483Y	Button, Lever M'tg	K 25	XTV3+6BFN	Screw, Bracket, Circuit Board M'tg
M 29	XSN2+4	Ass'y	M 96	RBC482Y	Button, Eject	K 26	XNS7D	Nut Volume Mute Int Cum
M 30	RFS293Z	Screw, Playback Head M'tg	M 97	RBC482Z	Button, REW	K 27	RHE5047Z	Screw, Socket M'tg
		Plate Spring, Playback Head	M 98	RUB284Z	Button, FF	K 28	RHE5048Z	Screw, Slider M'tg
M 31	XYN2+11F	Screw, Tape Guide M'tg			Lever, Eject	K 29	RKC80Z	Slider
M 32	RFN89Z	Washer, Tape Guide M'tg				K 30	RGT1160Z	Name Plate (For RM-1300A)
M 33	RFE107Z	Tape Guide				K 30	RGT1167Z	Name Plate (For RM-1400A)
M 34	RFY237Z	Pinch Roller Operation Plate				K 31	RBN651Y	Knob, VOLUME, INT COM (For RM-1300A)
M 35	RFU18Z	Head Plate Ass'y	K 1	RYPM1300AJHD	Front Panel Ass'y (For RM-1300A)	K 31	RBN702Z	Knob, VOLUME, INT COM (For RM-1400A)
M 36	RFR12Z	Pinch Roller Arm (Right)		RYPM1400AJHD	Front Panel Ass'y (For RM-1400A)	K 32	RYTM1100NHD	Mute Knob Ass'y
M 37	RFN51Z	Washer	K 1	RYQM1300AJHD	Cassette Cover Ass'y	K 33	RCMC910Z	Shield Cover
M 38	RFY242Z	Switch Lever Arm		RBC481Z	Button, AMB (For RM-1300A)	K 34	RMX260Z	Insulator
M 39	RFY253Z	Lift Up Lever	K 1-2	RBC638Z	Button, AMB (For RM-1400A)	K 35	RJP12G10Z	Plug, CN 105, 106
M 40	RFS307Z	Reverse Spring, Eject	K 1-3	RBC481Z1	Button, Preset, Band (For RM-1300A)	K 36	RJP2G4Y	Plug, CN 102, 108
M 41	RFX75Z	Spacer, Push Plate	K 1-4	RBC638Z1	Button, Preset, Band (For RM-1400A)	K 37	RJP3G1Z	Plug, CN 109
M 42	RFY250Z	Push Plate	K 1-5	RBC481Z2	Button, M/ME, Dolby, SENS (For RM-1300A)	K 38	RJP3G10Z	Plug, CN 107
M 43	RFX76Z	Spacer, Push Plate	K 1-6	RBC638Z2	Button, M/ME, Dolby, SENS (For RM-1400A)	K 39	RJP3G4Y	Plug, CN 101
M 44	XUC15FT	E Ring, Push Plate Spacer	K 1-7	RBC481Z2	Button, M/ME, Dolby, SENS (For RM-1400A)	K 40	RJP4G10Z	Plug, CN 104
M 45	RFY238Z	Timing Plate	K 1-8	RUL697Z	Spring, Preset Button	K 41	RJS236Q0Z	Plug, CN 103
M 46	RFS294Z	Spring, Timing Plate	K 1-9	RUL698Z	Stopper, Button	K 42	RJS3M1Z	Plug, CN 109
M 47	RFY240Z	Rack Plate	K 1-10	RUL9004Z	Bracket, Cassette Cover, Left	K 43	RMC805Z	Shield
M 48	RFO22Z	Head Base Plate Roller	K 1-11	XTN28+5B	Bracket, Cassette Cover, Right	K 44	RYM188Z	Heat Sink
M 49	RFR13Z	Pinch Roller Arm (Left)	K 1-12	XSN3+6S	Lever, Cassette Cover	K 45	RJT1026Z	Terminal
M 50	RFY243Z	Pull Plate	K 1-13	XWA3B	Tapping Screw	K 46	XTB3+8BFZ	Screw, Heat Sink M'tg
M 51	RFE111Z	Screw, Lever Bracket, etc.	K 1-14	RGX1367Z	Screw, Cassette Cover	K 47	RHM188Z	Spacer, Heat Sink
M 52	RFY249Z	M'tg	K 1-15	RHM164Z	Bracket, Cassette Cover	K 48	RMC1026Z	Shield
M 53	RFY245Z	Lock Sensor Push Plate	K 1-16	RDF828Z	Bracket	K 49	RMX301Z	Insulator
M 54	RFS300Z	Rewind Lever			Washer	K 50	RJP10G9Y	Plug, CN 502
M 55	RFY244Z	Spring, Rewind, FF Lever			Ornament	K 51	RJP15G10Z	Plug, CN 601
M 56	RFY246Z	FF Lever			Shaft, Cassette Cover	K 52	RJP2G9Y/A	Plug, CN 302
M 58	RFT7Z	Non-Lock Plate			Shaft, Cassette Cover	K 53	RJP3G8Y/A	Plug, CN 501
M 59	RFD151Z	Circuit Board			Stop Ring	K 54	RJP7G10Z	Plug, CN 304
M 60	RFS303Z	Bracket, Lever				K 55	RADAM834	Display Tube
M 61	RFY248Z	Spring, Lock Plate				K 56	RJP2G9Y	Plug (2P), CN 408
M 62	RFS302Z	FF/REW Rock Plate				K 57	RJS22Q7Z	Socket, CN 403
M 63	RFY247Z	Spring, Lock Release Plate	K 1-16	XUC12F		K 58	RJS30Q5Z	Socket, CN 401
		Lock Release Plate						